KERAMIDA
ENVIRONMENT • HEALTH • SAFETY
AIR • LAND • WATER • WASTE

401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
keramida@keramida.com • www.keramida.com

REMEDIATION SYSTEM EVALUATION REPORT
OCTOBER THROUGH DECEMBER 2006
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

Submitted to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Ms. Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

IDEM Office of Land Quality - Fileroom Stamp
VRP Project Name: Allison Plant 10
VRP #: 6991004 File Code: 410
Description: Quarterly report
Confidential? ____Yes ___X__No
Deliberative? ____Yes ___X__No

Submitted for:

GENUINE PARTS COMPANY
Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted by:

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317)685-6600

RECEIVED
FEB 19 2007
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

February 19, 2007

KERAMIDA
ENVIRONMENT • HEALTH • SAFETY
AIR • LAND • WATER • WASTE

401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
keramida@keramida.com • www.keramida.com

REMEDIATION SYSTEM EVALUATION REPORT
OCTOBER THROUGH DECEMBER 2006
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

Submitted to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Ms. Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Submitted for:

GENUINE PARTS COMPANY
Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted by:

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317)685-6600

Robert S. Fedorchak, P.E.
Senior Engineer/Project Manager

Reviewed by:

Andrew A. Gremos, L.P.G., C.H.M.M.
Senior Vice President, Land Services

February 19, 2007

REMEDIATION SYSTEM EVALUATION REPORT
OCTOBER THROUGH DECEMBER 2006
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

Submitted to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Ms. Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Submitted for:

GENUINE PARTS COMPANY
Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted by:

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317)685-6600

February 19, 2007

EXECUTIVE SUMMARY

KERAMIDA Environmental, Inc. (KERAMIDA) was contracted by the Genuine Parts Company to design and implement remediation to mitigate groundwater contamination at the former General Motors Corporation, Allison Gas Turbine Division, Plant 10 (Site) located at 700 North Olin Avenue, Indianapolis, Indiana. This report documents information collected during remediation activities from October through December 2006 and evaluates remediation performance.

The East System was shut down on January 30, 2006, based on four consecutive quarters of groundwater volatile organic compound (VOC) concentrations below Indiana VRP Tier II Non-Residential Cleanup Goals. Groundwater VOC concentrations, for the fourth quarter since the system was shut down, remained below their respective Indiana VRP Tier II Non-Residential Cleanup Goals.

The Northwest System was shut down and its vacuum was re-directed to the Southwest System on December 30, 2003, because the historical data for VOCs were below Cleanup Goals and the Southwest System needed more vacuum. On August 29, 2006, however, redirection ended when extraction wells, sparging points, monitoring wells MW-132, 147A and 148 and process piping associated with the Northwest System were abandoned and removed as soil removal activities were conducted in this area. A report detailing the soil removal activities will be submitted under a separate cover. Monitoring wells MW-132R, 147AR and 148R were subsequently installed and sampled following excavation activities. Concentrations of VOCs in groundwater, except for vinyl chloride in MW-148R, remained below Indiana VRP Tier II Non-Residential Cleanup Goals for the fifteenth consecutive quarter.

The Southwest System has been effective as shown by performance data, vapor recovery, and the reduction of groundwater VOC concentrations. The system's components are performing as designed. An additional 2.04 pounds of VOC vapors have been recovered, for a total of 129.84 pounds. Currently, all groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals for the sixth consecutive quarter. The Southwest System will continue to operate to remediate VOC-impacted groundwater.

The East Off-Site Area Bioremediation System has been effective based on three factors. First, the redox potential has dropped because of enhanced biological activity. Second, the trichloroethene (TCE) concentration decreased exponentially in IW-1 and MW-163. Third, the concentration of cis-1,2-dichloroethene (cDCE) increased in IW-1 and MW-163.

Quarterly on and off-Site groundwater monitoring occurred in December 2006/January 2007. Both the shallow and deep groundwater continues to flow toward the south. All groundwater concentrations are within historical values, except for total chromium and lead in MW-133R, MW-145, MW-148R and MW-152.

TABLES OF CONTENTS

TABLES

FIGURES

ATTACHMENTS

REMEDIATION SYSTEM EVALUATION REPORT
JULY THROUGH SEPTEMBER 2006
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

1.0 INTRODUCTION

KERAMIDA Environmental, Inc. (KERAMIDA) was contracted by the Genuine Parts Company (Genuine Parts) to design and implement remediation to mitigate identified groundwater contamination at the former General Motors Corporation, Allison Gas Turbine Division (AGT) Plant 10 in Indianapolis, Indiana (Site). Regulatory closure of the Site is being administered through the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP). The purpose of this report is to evaluate the progress of the implemented Final Remediation Work Plan (Final RWP) at the Site as modified/approved in the IDEM's Modified RWP Approval letter, dated March 22, 2005. This report summarizes the following information:

- Site Background
- Contaminants of concern and cleanup criteria
- Design and installation of the remediation system
- Remediation system monitoring plan
- Implementation and monitoring of the remediation system, including general operation & maintenance and performance data, operational parameters, evaluation and recommendations/future activities for each remediation system.

2.0 SITE BACKGROUND

The subject property is located at 700 North Olin Avenue, Indianapolis, Marion County, Indiana (see Figure 1). The property is the former Site of the General Motors Corporation, Allison Gas Turbine Division (AGT) Plant 10. Between 1956 and 1973, BHT Corporation (BHT) operated the facility for carburetor and brake re-manufacturing. General Motors purchased the property from BHT in 1973 and used the facility for warehousing obsolete machines, tooling, and fixtures until the mid-1980s, at which time the property became part of the AGT Division. BHT became part of Genuine Parts, through acquisition and merger, subsequent to the sale of the property to

General Motors. AGT continued to use the facility for warehousing until December 1993 when the property was sold to the Allison Engine Company (AEC). AEC sold the facility to Associated Properties, Inc. in 1998. Associated Properties, Inc. sold the facility to American Art Clay Company, Inc. in 2002, who is the current property owner. Maps showing salient Site features are presented in Figure 2 – Site Map and Figure 3 - Expanded Site Map.

3.0 CONTAMINANTS OF CONCERN AND CLEANUP CRITERIA

Identified contaminants of concern (COC) requiring in-situ remediation include volatile organic compounds (VOC) such as trichloroethene (TCE) and daughter products. Polynuclear aromatic hydrocarbons (PAHs) and three metals (cadmium, total chromium, and lead) were other COC but have been addressed by previously completed remediation activities. Indiana VRP Tier II Non-residential Cleanup Goals for on-Site soil and groundwater and Indiana VRP Tier II Residential Cleanup Goals for off-Site soil and groundwater were used as screening levels to complete Site investigation activities. Two primary source areas of contamination were identified on-Site and are referred to as the eastern source area and the western source area. A small anomalous area of TCE occurrence was also noted in groundwater to the east of the Site across Olin Avenue. A complete summary of on- and off-Site investigation activities is documented in Section 4.0 of the Final RWP dated and submitted to the IDEM on August 16, 2004.

Using the results of the human health and ecological screenings, documented in Sections 4.6 and 5.0 of the Final RWP, the Indiana VRP Tier II Non-Residential Cleanup Goals for subsurface soil and groundwater were selected as the cleanup criteria for Site soils and groundwater (Section 6.0 of Final RWP). Per the IDEM Modified RWP Approval letter, the Indiana VRP Tier II Residential Cleanup Goals are the current cleanup criteria for VOC COC in off-Site groundwater attributable to the Site. Because potable water is provided to the area by municipal water supply and the Site vicinity is located in a Marion County No Well Zone which restricts the installation of water supply wells, the potential for exposure to impacted groundwater is limited.

Off-Site VOC COC reduction will be monitored for a period of seven years. Should the off-Site concentrations of the VOC COC attributable to the Site be reduced to their respective Indiana VRP Tier II Residential Cleanup Goals during the seven year monitoring period, then remediation will be considered complete following four quarters of confirmation sampling. During the seven year monitoring period, Genuine Parts will work on the establishment of further

institutional control(s) (IC) acceptable to the IDEM that are more restrictive than the current Marion County No Well Zone. If further IC(s) acceptable to the IDEM are secured prior to the end of the seven year monitoring period, then monitoring will continue during that period to confirm an Indiana VRP Tier III Closure using plume stability. However, if off-Site groundwater cleanup below the Indiana VRP Tier II Residential Cleanup Goals is not achieved or more restrictive IC(s) acceptable to the IDEM cannot be secured, all during the seven year monitoring period, then an alternate remedy will be identified and implemented.

4.0 REMEDIATION SYSTEM OVERVIEW

Overall remediation consists of source area Air Sparge/Soil Vapor Extraction (AS/SVE) Systems and a Phytoremediation System. The AS/SVE Systems were installed to address groundwater VOC contamination in the eastern and western source areas. The AS/SVE Systems were installed from May 2000 through July 2001 and became operational in July 2001. The Phytoremediation System was installed along the entire southern property boundary of the Site in September 2000 to further mitigate groundwater VOC contamination. A complete summary of the selection, design, and installation of the remediation system was documented in Section 8.2 of the Final RWP. The Final RWP also identified a plan to extend the western source area AS/SVE System to remediate a VOC soil "hot spot." Expansion included the installation of the four nested SVE wells, associated subsurface piping, and their connection to the AS/SVE System during the period of August 25 through September 18, 2003. The expansion is documented in Section 8.3 of the Final RWP.

As a protective measure, the east off-Site TCE contaminated area is being remediated by reductive dechlorination to health protective levels. Reductive dechlorination is enhancing the naturally occurring processes of degradation. Natural reductive dechlorination takes place in most subsurface systems due to the presence of microbes, which break down the contaminants to harmless constituents. The goal of reductive dechlorination is to enhance the natural processes by the addition of a food source for the microbes. This food source usually consists of a substance with high carbon content. Reductive dechlorination is ideally suited for sites where chlorinated solvents are present and where field indications suggest that natural attenuation is already taking place. A corn syrup injection system was installed in March 2004 after a bench-scale "microcosm" test was completed determining appropriate dosing concentrations. A full

description of the reductive dechlorination process, injection system installation, and the microcosm study is documented in Section 8.2 of the Final RWP.

4.1 AS / SVE SYSTEM

AS/SVE Systems were designed and constructed in phases to aggressively reduce the two separate VOC groundwater plumes on-Site, control off-Site migration, and reduce concentrations in the VOC soil "hot spot." The AS/SVE System consists of a total of 44 air sparging and 35 soil vapor extraction wells. The AS/SVE System is separated into two western treatment units and one eastern treatment unit. Each treatment unit is serviced by separate equipment. The equipment for the two western treatment units is housed in one enclosure/trailer. The equipment for the eastern treatment unit is housed in a separate enclosure/trailer.

The northern unit of the western SVE/AS System (Northwest System) is comprised of 7 SVE and 10 AS wells. The southern unit of the western SVE/AS System (Southwest System) is comprised of 18 SVE wells and 19 AS wells. The eastern treatment unit (East System) is comprised of 10 SVE wells and 15 AS wells. The following table summarizes the AS/SVE System and its associated components:

Components	Northwest System	Southwest System	East System
SVE Wells	SVE – 1 through 7	SVE-8 through 17 & 28s/d, 29s/d, 31s/d, and 32s/d	SVE-18 through 27
ASV's and Corresponding AS Wells	ASV-1 (AS-1 to 4) ASV-2 (AS-5 to 7) ASV-3 (AS-8 to 10)	ASV-4 (AS-11 to 14) ASV-5 (AS-15 to 19) ASV-6 (AS-20 to 24) ASV-7 (AS-25 to 29)	ASV-8 (AS-30 to 35) ASV-9 (AS-36 to 40) ASV-10 (AS-41 to 44)

ASV = Air Sparging Vault

A layout of the AS/SVE System can be found on Figure 4 - Remediation System Layout with Utilities and Figure 5 - Supplemental Remediation System Layout in "Hot Spot."

4.2 PHYTOREMEDIATION SYSTEM

Phytoremediation is the use of various plants to remediate environmental media. Phytoremediation has been proven to be effective in the remediation of soil, sediment, groundwater, and surface water contaminated with organic and inorganic chemicals.

Phytoremediation applications clean up contaminated media by degrading, extracting, containing, and/or immobilizing the contaminants. In September 2000, phytoremediation was incorporated as part of the Remediation System. It is composed of two staggered rows of hybrid poplar trees, on 5-foot centers, that line the entire southern property boundary. The purpose is to further control the off-Site migration of groundwater COC. Spacing between the rows is a minimum of 8 feet. A layout of the phytoremediation design in place along the southern property boundary can be found on Figure 4 - Remediation System Layout with Utilities.

4.3 EAST OFF-SITE AREA BIOREMEDIATION SYSTEM

The east off-Site TCE contaminated area is being remediated by reductive dechlorination. The corn syrup injection system consists of two permanent injection wells, IW-1 and IW-2 installed: one near MW-163, and one in the right of way on the west side of Olin Avenue, on the centerline of Walnut Street and ten temporary injection points, all located within the TCE contaminated area. MW-173 was installed approximately 30 feet southeast of existing MW-163 to monitor the treatment process. Existing MW-151 and 156 are used as downgradient sentry wells to monitor the extent of the plume. Permanent well locations are depicted on Figure 3 - Expanded Site Map.

5.0 REMEDIATION SYSTEM MONITORING PLAN

A brief summary of the remediation system monitoring plan is described in this section. A complete summary of the remediation system monitoring plan is documented in Section 8.4 of the Final RWP. Also, please refer to Section 9.0 Operation and Maintenance Plan and the Quality Assurance Project Plan found as Attachment 7 in the Final RWP for complete details.

5.1 AS/SVE SYSTEMS

Weekly Site visits have been made to monitor the AS/SVE Systems operation, to collect performance indicators, and to conduct routine maintenance. Monthly effluent vapor samples have been collected from each SVE blower and submitted for laboratory analysis for VOCs. A quarterly effluent vapor sample was collected from each SVE blower and analyzed for permanent gases.

The AS/SVE Systems began operating in July 2001. A description of these systems and monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

5.2 PHYTOREMEDIATION SYSTEM

Monthly inspections are conducted during the growing season and quarterly inspections are conducted throughout the dormant period of each year. The growing season for the Site is from April through October. If any trees show signs of distress, disease, or other abnormalities, corrective actions are taken. Inspection details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

Leaf tissue and transpiration gas sampling and analysis for VOCs, from three randomly selected trees, are to be conducted in June and September of each year to coincide with the early and late stages of the growing season. The results of tissue and gas sampling and analysis are used to evaluate the physical and chemical mechanisms at work in the remediation system, the potential for risk to ecological receptors from exposure to COC-containing plant tissues, and potential COC concentrations released to ambient air in the remediation area. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

5.3 SELECTIVE ON-SITE GROUNDWATER MONITORING

The fifteenth round of quarterly on-Site groundwater monitoring was conducted in December 2006 from seven monitoring wells: MW-10-1R, 132R, 133R, 147AR, 148R, 150 and 153. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and reduction/oxidation (redox) potential. Samples collected for laboratory analysis were analyzed for VOCs at Data Quality Objective (DQO) Level II. The analytical results will aid in the evaluation of progress being made by the remediation system. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 – Groundwater Monitoring Plan for locations of monitoring wells.

Once the analytical results for all seven monitoring wells from four consecutive quarterly groundwater sampling events display asymptotic behavior near or drops below the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, the remediation system will be shut down and selective monitoring will end.

5.4 ON-SITE GROUNDWATER MONITORING

The fourth round of annual on-Site groundwater monitoring was conducted in December 2006 from 11 monitoring wells: MW-10-1R, 132R, 133R 135, 145, 146, 148R, 150, 152, 153 and 154. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis were analyzed for VOCs, PAHs, cadmium, total chromium and lead at DQO Level II. The analytical results will be used to evaluate the status of the on-Site attainment of the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, PAHs, cadmium, total chromium, and lead. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells.

Once the remediation system has been shut down as described in Section 5.3, sampling will change from annual to quarterly events and samples will be analyzed at a DQO Level IV for groundwater confirmation purposes. Once the analytical results in all 11 monitoring wells from four consecutive quarterly groundwater sampling events display asymptotic behavior near or drops below the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, PAHs, cadmium, total chromium and lead, on-Site remedial objectives will be attained and the IDEM will be petitioned for on-Site closure.

5.5 ON AND OFF-SITE GROUNDWATER MONITORING

The thirteenth round of quarterly on and off-Site groundwater monitoring was conducted in December 2006/January 2007 from 22 monitoring wells: MW-10-1R, 132R, 146, 148R, 150, 151, 152, 153, 156, 157, 160, 161, 164, 165S, 165D, 166S, 166D, 167S, 167D, 169S, 169D, and 302. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis were analyzed for VOC at DQO Level IV. The analytical results will aid in the evaluation of off-Site natural attenuation and plume stability. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells.

Off-Site VOC COC concentrations are being monitored quarterly for a seven year period. Should the off-Site concentrations of the VOC COC attributable to the Site be reduced to their respective Indiana VRP Tier II Residential Cleanup Goals during the seven year monitoring period, then remediation will be considered complete following four quarters of confirmation

sampling. During the seven year monitoring period, Genuine Parts will work on the establishment of further institutional control(s) (IC) acceptable to the IDEM that are more restrictive than the current Marion County No Well Zone. If further IC(s) acceptable to the IDEM are secured prior to the end of the seven year monitoring period, then monitoring will continue during that period to confirm an Indiana VRP Tier III Closure using plume stability. However, if off-Site groundwater cleanup below the Indiana VRP Tier II Residential Cleanup Goals is not achieved or more restrictive IC(s) acceptable to the IDEM cannot be secured, all during the seven year monitoring period, then an alternate remedy will be identified and implemented.

5.6 EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING

The fourteenth and fifteenth rounds of east off-Site area bioremediation groundwater monitoring were conducted in November (following third injection) and December 2006 (normally scheduled) from six monitoring wells: IW-1, IW-2, MW-151, 156, 163, and MW-173. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis were analyzed for VOCs and total organic carbon (TOC) by EPA Method 415.1 at DQO Level II. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells. The analytical results from the groundwater sampling from these wells will be used to evaluate the progress of the east off-Site area bioremediation system.

6.0 IMPLEMENTATION AND MONITORING OF REMEDIATION SYSTEM

The project goal is to ensure continued operation of the groundwater remediation system and to maintain and operate it in the most efficient manner possible.

6.1 AS/SVE SYSTEMS

Operational parameters and performance data, maintenance activities, operational evaluation, and recommendations/future activities for each on-Site source area of the AS/SVE System are detailed below. O&M Logs from October through December 2006 are provided in Attachment 1 and Operational Logs with performance data are provided in Attachment 2.

6.1.1 East System

As discussed in Section 6.1.1 of the Remediation System Evaluation Report, October through December 2005, dated February 14, 2006, KERAMIDA shut down the East System on January 30, 2006. This was based on four consecutive quarters of groundwater VOC concentrations below Indiana VRP Tier II Non-Residential Cleanup Goals. Monitoring of groundwater VOC concentrations was conducted in December 2006/January 2007. As discussed in Section 6.4.1 East System and Associated Monitoring Wells, for the fourth quarter, following the shut down of active remediation, all groundwater VOC concentrations are below Indiana VRP Tier II Non-Residential Cleanup Goals.

KERAMIDA will continue to conduct quarterly groundwater monitoring activities as described in Section 5.3 Selective On-Site Groundwater Monitoring.

6.1.2 Northwest System

As discussed in Section 6.1.2 of the Remediation System Evaluation Report, January through March 2004, dated June 29, 2004, the Northwest System was shut down in late December 2003. Prior to the shut down, historical analytical results of the monitoring wells associated with the Northwest System were reviewed. For the third consecutive quarter, all concentrations were below the Indiana VRP Tier II Non-Residential Cleanup Goals. Because of the trend at the Northwest System and the need to continually operate the Southwest System, the Northwest System was shut down and vacuum application to its SVE wells was then re-directed through the Southwest System SVE blower on December 29, 2003. This configuration was operational from the re-starting of the Southwest System on December 30, 2003 through August 29, 2006.

Operation of the Northwest System SVE wells through the Southwest System SVE blower ended when extraction wells SVE-1 through 7, sparging points AS-1 through 7, monitoring wells MW-132, 147A and 148 and process piping associated with the Northwest System were abandoned and removed as excavation activities were conducted in this area. A report detailing excavation activities will be submitted under a separate cover. Replacement monitoring wells MW-132R, 147AR and 148R were installed and developed following excavation activities on October 10 and 11, 2006.

As discussed in Section 6.4.2 Northwest System and Associated Monitoring Wells, for the fifteenth consecutive quarter, groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals, except for vinyl chloride in MW-132R and MW-148R.

KERAMIDA will continue to conduct quarterly groundwater monitoring activities as described in Section 5.3 Selective On-Site Groundwater Monitoring.

6.1.3 Southwest System

Operation and Performance

The Southwest System began operating in July 2001 and through January 4, 2007, the SVE blower has operated for 36,268 hours and the AC unit has operated for 33,560 hours. The system operated 65% of the time from October through December 2006.

Various operational and performance data were collected during these O&M visits. The data collected were documented on the O&M and Operational Logs. Tasks completed during the O&M visits are as follows:

- Weekly operational measurements from AS and SVE systems.
- Monthly collection of effluent vapor samples for VOC analysis.
- Adjustments to the applied vacuum and pressures at the vapor extraction and air sparging points were completed to optimize performance.
- A performance data collection event (January 4, 2007) to collect observed, applied, and induced vacuum and pressures, groundwater mounding, groundwater dissolved oxygen (DO) and redox potential levels. These performance data were collected at various vapor extraction wells, air sparging points, and monitoring points.
- Quarterly collection of an effluent vapor sample for permanent gases analysis was completed on December 18, 2006.
- Quarterly collection of groundwater samples for VOC analysis from monitoring wells, MW-133R and 153 was completed in December 2006.

The data from the 2001 and 2002 operational and performance data collection events were used to determine optimal operating conditions and associated system performance for the Southwest System. The design operating conditions, and associated system performance were determined

by pilot-scale testing; therefore, optimal operating conditions and performance were established based on the evaluation of actual full-scale system conditions and performance. The data collected during the current monitoring period were compared to both the design and optimal operating conditions and performance. The following table summarizes design, optimal and current operating conditions and associated system performance information.

Parameter	Design Conditions and Performance	Optimal Conditions and Performance	Current Conditions and Performance
SVE Wells	45 inches of H_2O vacuum/well 28 foot Radius of Influence (ROI)	15-20 inches of H_2O 25 foot ROI	10 inches of H_2O 25 foot ROI
SVE Blower	70 inches of H_2O vacuum at inlet 1,000cfm of influent air flow	35-40 inches of H_2O 200-250cfm	13-18 inches of H_2O 1,000cfm
AS Wells	10psi at 10cfm/well 20 foot ROI	5psi at 5cfm/well 20-foot ROI	6psi at 4-5cfm/well 20 foot ROI
Air Compressor	100psi at outlet (40psi at regulator)	100psi at outlet (25-30psi at regulator)	105psi at outlet (33-40psi at regulator)

A layout of each AS/SVE System with current AS and SVE ROI information is provided in Figure 4 - Remediation System Layout with Utilities.

Southwest System vapor discharge rates, for each vapor sampling event, were determined by using vapor sampling analytical data and flow measurements taken from the effluent stack. Time periods were determined based on the occurrence of vapor sampling events with associated SVE operational hours. Using these data, KERAMIDA estimates 2.04 pounds of VOC vapors have been removed from the subsurface by the Southwest System during the current monitoring period. Copies of VOC vapor discharge calculations and analytical reports are provided in Attachment 3.

On January 4, 2007, in addition to the collection of vapor samples, a permanent gases sample was collected from the system's effluent stack for analysis. Analytical results indicate oxygen, nitrogen, and carbon dioxide at concentrations of 19.89%, 76.63%, and 0.04% by volume, respectively. Methane was not detected above the 0.03% method detection limit. A copy of the analytical report is provided in Attachment 3.

As discussed in Section 4.0 Remediation System Overview, the Final RWP also identified a plan to extend the western source area AS/SVE System to remediate a VOC soil "hot spot." Expansion included the installation of the four nested SVE wells, associated subsurface piping, and their connection to the AS/SVE System during the period of August 25 through September 18, 2003. This configuration was operational through August 29, 2006. Operation through these four nested SVE wells ended when they were abandoned and removed as excavation activities were conducted in this area. A report detailing excavation activities will be submitted under a separate cover.

Maintenance Activities

In mid to late October, mid-November and late-December 2006, the system went down due to high water caused by numerous large rain events. Following each high water shut down event, the SVE blower knock-out was drained and the SVE blower and/or SVE wells were adjusted to minimize water production. Condensate within the SVE blower process lines had to be removed and the system restarted.

On December 1, 2006, during a normally scheduled O&M visit, KERAMIDA found that the control panels circuit breaker had tripped shutting down the system. The system was restarted and investigated for the shut down reason and none could be determined. On January 4, 2007, the system went down again and no cause could be determined. If this issue persists then, KERAMIDA will replace the circuit breaker.

On December 18, 2006, during a normally scheduled O&M visit, KERAMIDA found that the air compressor unit was not operating. It was discovered that the air compressors door jam connection hardwear was broken. The door jam connection hardwear was subsequently replaced and the system restarted on December 21, 2006.

Evaluation

Differences between the designed, optimal, and actual conditions and performance of the SVE portion of the Southwest System are evident. The design calls for an applied vacuum per well of 45 inches of H_2O column to induce a ROI of approximately 28 feet. Optimal conditions indicate a significantly lower applied vacuum/well of 15-20 inches of H_2O column, resulting in an ROI of approximately 25 feet, while current conditions result in the same ROI using an applied vacuum of approximately 10-inches of H_2O column. The lower applied vacuum/well under current

conditions when compared to the optimal conditions is partly attributable to the Southwest System SVE blower applying vacuum to the Northwest System SVE wells. The spacing between SVE wells is approximately 30-40 feet, thus providing an overlap of actual ROIs. The SVE blower is operating at a significantly lower vacuum and flow than designed; this is partially a result of SVE blower throttling, subsurface conditions, and the Southwest System SVE blower is also applying vacuum to the Northwest System SVE wells.

Differences also are evident between the designed, optimal, and actual conditions and performance of the AS portion of the Southwest System. The design calls for an injection of 10 cubic feet per minute (cfm) of air at pressure of 10 pounds per square inch (psi) to achieve a ROI of approximately 20 feet. Optimal conditions indicate an injection of 5 cfm at 5 psi also can achieve an ROI of approximately 20 feet. However, current conditions indicate a ROI of approximately 20 feet is achieved at an injection rate of 4-5 cfm at 6 psi. The spacing between AS wells is approximately 25-30 feet, providing an overlap of actual ROIs. The AC unit is operating as designed; however, because of lower injection rates, the pressure has been set lower.

The purpose of the remediation system is the treatment of VOC-impacted groundwater. Treatment can be accomplished in two ways: (1) through the in-situ stripping of the volatile compounds and subsequent removal and; (2) through the stimulation of bioactivity by the addition of oxygen to the subsurface. Vapor discharge data and calculations indicate that 2.04 pounds of VOC vapors have been removed from the subsurface by the Southwest System during the current monitoring period with a total of 129.84 pounds of VOC vapors removed since initiation in July 2001. This low vapor recovery was expected because of the low dissolved VOC concentrations in the groundwater. The contribution of bioactivity to the groundwater remediation effort is more difficult to quantify. Analytical results indicated concentrations of carbon dioxide, oxygen, nitrogen, and methane present in the system's effluent at levels close to normal atmospheric air. This indicates that no appreciable bioactivity is occurring in the subsurface.

Monitoring of groundwater VOC concentrations was conducted in December 2006/January 2007. The reduction of these concentrations is a direct means of evaluating remediation progress. As discussed in Section 6.4.3 Southwest System and Associated Monitoring Wells, for the sixth consecutive quarter, all groundwater VOC concentrations are below Indiana VRP Tier II Non-Residential Cleanup Goals.

Recommendations

KERAMIDA recommends the continued operation of the Southwest System to remediate VOC-impacted groundwater.

6.1.4 Liquid Waste Management

Liquid wastes were generated by the drainage of condensate from the vapor extraction blower knock-outs and during groundwater sampling. A 400-gallon poly tank was used to store these liquids. Liquid Waste Removal, Inc. of Indianapolis, Indiana, removes and hauls condensate and groundwater generated for treatment/disposal at Perma-Fix located in Dayton, Ohio, in accordance with applicable federal, state, and local regulations. From October through December 2006, additional condensate waters were generated and disposed. A total of 5,865-gallons of condensate waters has been generated and disposed since start-up in July 2001.

6.2 PHYTOREMEDIATION SYSTEM

KERAMIDA continued conducting inspections during the current monitoring period. An inspection was conducted on October 23, 2006 and indicated the need for replanting 30-40 poplar trees. KERAMIDA will replant these trees in the Spring 2007 and any other trees that die over Winter 2006/2007. A copy of the inspection is found as Attachment 4.

6.3 EAST OFF-SITE AREA BIOREMEDIATION SYSTEM

Three full-scale injections have been implemented. The first was conducted from July 19 through 21, 2004, the second on October 19, 2004, and the third on October 24 & 25, 2006. Prior to and following these injection events, groundwater monitoring was conducted from permanent injection wells IW-1 and 2, and monitoring wells MW-151, 156, 163, and 173.

In July 2004, approximately 1,800 gallons of tap water with 1,000 milligrams per liter (mg/L) TOC from corn syrup were injected into the subsurface via injection wells IW-1 and 2 and 10 push-probe points. This volume and concentration were chosen as sufficient to achieve the target concentration of corn syrup across the entire treatment area of 120 feet by 30 feet. The injections were performed under minimal pressures (<5 pounds per square inch, psi).

In October 2004, based on results of groundwater monitoring data (July 2004 injection event), approximately 1,800 gallons of tap water with 10,000 mg/L TOC from corn syrup were injected into the subsurface via injection wells IW-1 and 2. This volume and concentration were chosen

to provide a longer retention time for the corn syrup in the remediation area. The injections were again carried out under minimal pressures (<5 psi).

Based on the results of the groundwater monitoring following the October 2004 injection event, reductive dechlorination of the chlorinated solvents initially proceeded at an accelerated rate, but recent data, as discussed in Section 6.7 East Off-Site Area Bioremediation Groundwater Monitoring of the Remediation System Evaluation Report, July through September 2006, dated December 20, 2006, bioremediation had slowed down.

Therefore, a third injection was completed from October 24 through 25, 2006. Approximately 1,800 gallons of tap water with 10,000 mg/L TOC from corn syrup were injected into the subsurface via injection wells IW-1 and 2. The injections were again carried out under minimal pressures (<5 psi).

6.4 SELECTIVE ON-SITE GROUNDWATER MONITORING

KERAMIDA conducted the quarterly collection of groundwater samples for field parameters and VOC analyses in December 2006/January 2007 from MW-10-1R, 132R, 133R, 147AR, 148R, 150 and 153. Groundwater samples were collected from these on-Site monitoring wells using low-flow sampling equipment. All analytical results were compared to their respective Indiana VRP Tier II Non-Residential Cleanup Goals. Field parameter data are documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. A copy of the current laboratory analytical report is provided in Attachment 6. Current and historical analytical results for each system and its associated monitoring wells are evaluated in the following sections.

6.4.1 East System and Associated Monitoring Wells

MW-150 and MW-10-1R are associated with the eastern impacted groundwater plume that the East System was designed to remediate. For the eighth consecutive quarter, all groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L).

6.4.2 Northwest System and Associated Monitoring Wells

MW-132R, MW-147AR, and MW-148R are associated with the western impacted groundwater plume that the Northwest System is designed to remediate. For the fifteenth consecutive quarter, groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals, except for vinyl chloride in MW-148R. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L).

6.4.3 Southwest System and Associated Monitoring Wells

MW-133R and MW-153 are associated with the western impacted groundwater plume that the Southwest System is designed to remediate. For the sixth consecutive quarter, groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L).

6.5 ON-SITE GROUNDWATER MONITORING

KERAMIDA conducted the annual collection of groundwater samples for field parameters and VOCs, PAHs, cadmium, total chromium, and lead analyses in December 2006 from monitoring wells: MW-10-1R, 132R, 133R, 135, 145, 146, 148R, 150, 152, 153, and 154. Groundwater samples were collected from these on-Site monitoring wells using low flow sampling equipment. Field parameter data are documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L), Table 3 - Shallow Monitoring Well Groundwater Analytical Results for PAHs (µg/L), and Table 4 - Shallow Monitoring Well Groundwater Analytical Results for Metals (µg/L). A copy of the current laboratory analytical report is provided in Attachment 6.

All groundwater concentrations are within historical values, except for total chromium and lead in MW-133R, MW-145, MW-148R and MW-152.

6.6 ON AND OFF-SITE GROUNDWATER MONITORING

KERAMIDA conducted the quarterly collection of groundwater samples for field parameters and VOC analyses in December 2006/January 2007 from 22 monitoring wells: MW-10-1R, 132R, 146, 148R, 150, 151, 152, 153, 156, 157, 160, 161, 164, 165S, 165D, 166S, 166D, 167S, 167D, 169S, 169D, and 302. Groundwater samples were collected from these monitoring wells using low flow sampling equipment. All VOC concentrations are within historical values.

Field parameter data are documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. Current and historical analytical results were tabulated and can be found in Table 2a - Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L) and Table 2b - Deep Monitoring Well Groundwater Analytical Results for VOCs (µg/L). A copy of the current laboratory analytical report is provided in Attachment 6.

Groundwater level data from the December 2006/January 2007 sampling event is included within Table 1 – Water Level Data Summary. Shallow and deep groundwater level data from the gauging event, indicate that groundwater was flowing in a southerly direction, as depicted on Figure 7 - Groundwater Potentiometric Surface Map - Shallow Wells, December 2006 and Figure 8 - Groundwater Potentiometric Surface Map - Deep Wells, December 2006.

6.7 EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING

KERAMIDA conducted the collection of groundwater samples for field parameters and VOC and TOC analyses in November 2006 (following third injection) and December 2006 (normally scheduled) from six monitoring wells: IW-1, IW-2, MW-151, 156, 163, and MW-173. Groundwater samples were collected from these monitoring wells using low flow sampling equipment. Historical and current field parameter data were tabulated and can be found in Table 5 - East Off-Site Bioremediation Field Parameter and Select Groundwater Analytical Results. Current field parameter data was documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. Current and historical analytical results were tabulated and can be found in Table 2a - Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L), and Table 5 - East Off-Site Bioremediation Field Parameter and Select Groundwater Analytical Results. Copies of the current laboratory analytical reports are provided in Attachment 6.

The evidence that bioremediation of TCE is taking place can be seen in three factors. First, the redox potential has dropped. This is caused by biological activity and is necessary for reductive dechlorination to take place. Second, the TCE concentration decreased exponentially over time in IW-1 and MW-163. This exponential decay is indicative of biological activity. Third, the concentration of cDCE increased in IW-1 and MW-163. This is expected as TCE is reduced to cDCE.

7.0 USE OF REPORT

This report has been prepared for the exclusive use of the Client and persons or organizations to whom the Client wishes to make this report available. This report and the findings, conclusions and recommendations contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, or used by or relied upon by any other party, without the prior written consent of KERAMIDA.

8.0 LIMITATIONS

This report was prepared in accordance with KERAMIDA contractual guidelines set forth for remediation services. KERAMIDA's professional opinions contained herein are based upon the operation, maintenance, and monitoring/sampling conducted by KERAMIDA personnel during the operation of the remediation system. No other warranty is given or implied by this report.

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6091004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation [1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
Shallow Wells							
MW10-1	714.04	NA	7-17	707.04-697.04	07/14/95	14.07	699.97
					09/11/95	14.25	699.79
					02/05/97	12.75	701.29
					11/22/99	14.53	699.51
					02/28/00	14.37	699.67
	713.71	712.30	7-17	706.71-696.71	11/07/00	14.62	699.09
					07/24/01	14.40	699.31
					01/30/02	14.25	699.46
					07/19/02	13.45	700.26
					05/07/03	11.21	699.36
MW-10-1R	714.00	711.75	7-17	704.75-694.75	12/03/03	14.35	699.65
					03/03/04	14.40	699.60
					03/10/04	11.73	702.27
					06/02/04	14.31	699.69
					12/20/04	10.40	703.60
					03/16/05	14.26	699.74
					06/13/05	14.34	699.66
					09/21/05	15.35	698.65
					12/05/05	15.31	698.69
					01/30/06	14.50	699.50
					03/13/06	13.40	700.60
					06/12/06	14.50	699.50
					10/13/06	14.94	699.06
					12/20/06	14.43	699.57
MW-132	712.17	NA	10-20	702.17-692.17	07/14/95	11.39	700.78
					09/11/95	11.49	700.68
					02/05/97	10.25	701.92
					02/26/97	11.17	701.00
					11/22/99	12.15	700.02
					02/28/00	10.76	701.41
	712.19	712.70	10-20	702.19-692.19	11/07/00	dry	NA
	712.22	712.57	10-20	702.22-692.22	07/24/01	11.72	700.50
					01/30/02	11.97	700.25
					07/22/02	11.98	700.24
					05/07/03	11.35	700.87
					12/03/03	11.72	700.50
					03/10/04	11.46	700.76
					06/02/04	11.09	701.13
					09/14/04	12.50	699.72
					12/20/04	11.95	700.27
					03/16/05	11.75	700.47
					06/13/05	11.51	700.71
					09/21/05	11.90	700.32
					12/05/05	12.35	699.87
					01/30/06	11.55	700.67
					03/13/06	9.65	702.57
					06/12/06	11.61	700.61
MW-132R	711.74	712.12	10-20	701.74-691.74	10/13/06	11.81	699.93
					12/20/06	11.24	700.50
MW-133	708.79	NA	8-18	700.79-690.79	06/11/95	8.84	699.95
					02/05/97	7.29	701.50
					11/22/99	8.24	700.45
					02/28/00	8.61	700.18
	708.83	709.10	8-18	700.83-690.83	11/07/00		NA
MW-133R	709.03	--	7-17	--	12/04/03	9.76	699.27
					03/10/04	9.19	699.84
					06/02/04	8.95	700.08
					09/14/04	9.93	699.10
					12/20/04	9.74	699.29
					03/16/05	9.39	699.64
					06/13/05	9.29	699.74
					09/21/05	9.74	699.29
					12/05/05	9.34	699.69
					01/30/06	9.15	699.88
					03/13/06	7.85	701.18
					06/12/06	9.15	699.88
					10/13/06	9.93	699.10
					12/20/06	9.40	699.63

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6901004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation [2] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-135	713.69	NA	10-20	703.69-693.69	07/14/95	13.26	700.43
					09/11/95	13.66	700.03
					02/05/97	11.96	701.73
					02/26/97	12.47	701.22
					11/22/99	14.20	699.49
					02/28/00	14.05	699.64
	713.70	714.10	10-20	703.70-693.70	11/07/00	14.12	699.58
					06/20/01	13.85	699.85
					07/24/01	13.67	700.03
					01/30/02	13.80	699.90
					07/15/02	12.05	701.65
					12/03/03	13.01	700.69
					03/10/04	12.97	700.73
					06/02/04	12.35	701.35
					09/14/04	13.62	700.08
					12/20/04	13.40	700.30
					03/16/05	12.56	701.14
					06/13/05	12.86	700.84
					09/21/05	13.83	699.87
					12/05/05	12.42	701.28
					01/30/06	13.35	700.35
					03/13/06	12.00	701.70
					06/12/06	12.60	701.10
					10/13/06	13.71	699.99
					12/20/06	13.04	700.66
MW-145	707.90	NA	18-28	689.90-679.90	07/14/95	8.85	699.05
					09/11/95	8.85	699.05
					02/05/97	7.43	700.47
					11/22/99	9.10	698.80
					02/28/00	8.62	699.28
	707.94	708.00	18-28	689.94-679.94	11/07/00	8.74	699.20
					06/21/01	8.82	699.12
	707.98	708.64	18-28	689.98-679.98	07/24/01	8.78	699.20
					01/30/02	8.05	699.93
					07/22/02	8.89	699.09
					12/06/03	8.85	699.13
					03/10/04	8.93	699.05
					06/02/04	8.51	699.47
					09/14/04	9.39	698.59
					12/20/04	9.09	698.89
					03/16/05	8.90	699.08
					09/21/05	9.00	698.98
					12/05/05	9.45	698.53
					01/30/06	8.40	699.58
					03/13/06	7.70	700.28
					06/12/06	8.80	699.18
					10/13/06	9.22	698.76
					12/20/06	8.91	699.07
MW-146	708.67	NA	15-25	693.67-683.67	07/14/95	9.41	699.26
					09/11/95	9.44	699.23
					02/05/97	7.95	700.72
					11/22/99	9.73	698.94
					02/28/00	9.91	698.76
	708.71	709.10	15-25	693.71-683.71	11/07/00	8.95	699.76
					06/21/01	9.48	699.23
					07/24/01	9.51	699.20
					01/30/02	9.31	699.40
					07/15/02	10.09	698.62
					12/03/03	9.5	699.21
					12/19/03	9.5	699.21
					03/10/04	9.46	699.25
					06/02/04	9.12	699.59
					12/20/04	9.76	698.95
					03/16/05	9.46	699.25
					06/13/05	9.34	699.37
					09/21/05	9.45	699.26
					12/05/05	8.44	700.27
					01/30/06	9.20	699.51
					03/13/06	8.40	700.31
					06/12/06	9.48	699.23
					10/13/06	9.89	698.82
					12/20/06	9.56	699.15

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation [1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-147	711.88	NA	20-30	691.88-681.88	07/14/95	11.09	700.79
					09/11/95	11.20	700.68
					02/05/97	9.91	701.97
					11/22/99	11.49	700.39
					02/28/00	11.44	700.44
	711.53	711.60	20-30	691.53-681.53	11/07/00	11.40	700.13
MW-147A	711.61	712.07	20-30	691.61-681.61	06/21/01	12.46	699.15
					07/24/01	11.22	700.39
					01/30/02	11.34	700.27
					07/22/02	11.06	700.55
					05/07/03	11.50	700.11
					12/03/03	11.14	700.47
					03/10/04	10.79	700.82
					06/02/04	10.45	701.16
					09/14/04	11.76	699.85
					12/20/04	11.35	700.26
					03/16/05	11.19	700.42
					06/13/05	11.98	699.63
					09/21/05	11.33	700.28
					12/05/05	11.66	699.95
					01/30/06	10.89	700.72
					03/13/06	9.00	702.61
MW-147AR	711.71	712.03	20-30	691.71-681.71	10/13/06	11.70	700.01
					12/20/06	11.19	700.52
MW-148	711.00	NA	10.5-25.5	700.50-685.50	07/14/95	10.43	700.57
					09/11/95	10.50	700.50
					02/05/97	8.25	702.75
					02/26/97	10.15	700.85
					11/22/99	11.50	699.50
					02/28/00	10.36	700.64
	711.04	712.00	10.5-25.5	700.54-685.51	11/07/00	10.90	700.14
					06/21/01	10.73	700.31
	711.07	712.00	10.5-25.5	700.57-685.57	07/24/01	10.55	700.52
					01/30/02	10.73	700.34
					07/22/02	11.31	699.76
					05/07/03	11.25	699.82
					12/03/03	10.31	700.76
					03/10/04	10.16	700.91
					06/02/04	10.11	700.96
					09/14/04	11.40	699.67
					12/20/04	11.02	700.05
					03/16/05	10.89	700.18
					06/13/05	10.65	700.42
					09/21/05	10.82	700.25
					12/05/05	10.71	700.36
					01/30/06	10.53	700.54
					03/13/06	8.70	702.37
					06/12/06	10.80	700.27
MW-148R	711.44	711.94	10.5-25.5	700.94-685.94	10/13/06	11.71	699.73
					12/20/06	11.17	700.27
MW-150	712.93	NA	4-19	708.93-693.93	09/11/95	13.30	699.63
					02/05/97	11.75	701.18
					11/22/99	13.57	699.36
					02/28/00	13.50	699.43
	712.90	713.30	4-19	708.90-693.90	11/07/00	13.80	699.10
					06/20/01	13.51	699.39
	712.96	713.38	4-19	708.96-693.96	07/24/01	12.88	700.08
					01/30/02	13.76	699.20
					07/19/02	12.18	700.78
					05/07/03	11.85	701.11
					12/03/03	12.85	700.11
					03/03/04	12.28	700.68
					03/10/04	13.00	699.96
					06/02/04	12.17	700.79
					09/14/04	13.35	699.61
					12/20/04	13.65	699.31
					03/16/05	11.31	701.65
					06/13/05	13.11	699.85
					09/21/05	12.66	700.30
					12/05/05	13.12	699.84

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6001004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation [1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-150 (cont'd.)	712.96	713.38	4-19	708.96-693.96	01/30/06	13.70	699.76
					03/13/06	12.10	700.86
					06/12/06	12.55	700.41
					10/13/06	11.42	701.54
					12/20/06	12.87	700.09
MW-151	712.96	NA	5-20	707.96-692.96	07/14/95	13.93	699.03
					09/11/95	14.04	698.92
					02/05/97	12.80	700.16
					11/22/99	13.97	698.99
					02/28/00	13.94	699.02
	712.93	713.20	5-20	707.93-692.93	11/07/00	14.15	698.78
					06/20/01	13.98	698.95
					07/24/01	13.88	699.05
					01/30/02	13.80	699.13
					07/18/02	13.46	699.47
					12/04/03	13.85	699.08
					03/03/04	13.72	699.21
					06/02/04	13.44	699.49
					07/16/04	13.98	698.95
					08/16/04	14.25	698.68
					09/14/04	14.41	698.52
					10/18/04	14.29	698.64
					11/19/04	14.21	698.72
					12/20/04	14.15	698.78
					01/24/05	10.85	702.08
					03/16/05	13.70	699.23
					06/13/05	12.82	700.11
					09/21/05	14.05	698.88
					12/05/05	13.12	699.81
					01/30/06	13.70	699.23
					03/13/06	13.00	699.93
					06/12/06	13.75	699.18
					10/13/06	14.30	698.63
					11/21/06	13.77	699.16
					12/20/06	13.95	698.98
MW-152	713.06	NA	5-20	708.06-698.06	07/14/95	13.45	699.61
					09/11/95	13.57	699.49
					02/05/97	12.21	700.85
					02/26/97	12.92	700.14
					11/22/99	13.90	699.16
					02/28/00	13.38	699.68
	712.93	713.20	5-20	707.93-697.93	11/07/00	13.84	699.09
					06/20/01	13.64	699.29
					07/24/01	13.54	699.39
					01/30/02	13.46	699.47
					07/15/02	12.89	700.04
					12/03/03	13.31	699.62
					03/10/04	13.30	699.63
					06/02/04	12.79	700.14
					09/14/04	14.01	698.92
					12/20/04	13.67	699.26
					03/06/05	13.29	699.64
					06/13/05	13.21	699.72
					09/21/05	13.86	699.07
					12/05/05	13.32	699.61
					01/30/06	13.30	699.63
					03/13/06	12.25	700.68
					06/12/06	13.30	699.63
					10/13/06	13.98	698.95
					12/20/06	13.84	699.09
MW-153	711.64	NA	4.5-19.5	707.14-692.14	07/14/95	11.77	699.87
					09/11/95	11.76	699.88
					02/05/97	9.78	701.86
					02/26/97	11.14	700.50
					11/22/99	12.25	699.39
					02/28/00	11.26	700.38
	711.67	709.30	4.5-19.5	707.67-692.67	11/07/00	12.15	699.52
					06/21/01	11.95	699.72
					07/24/01	11.92	699.75
					01/30/02	11.83	699.84
					07/22/02	11.82	699.85
					12/03/03	12.36	699.31
					03/10/04	11.44	700.23
					06/02/04	11.49	700.18

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 3829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation [2] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-153 (cont'd.)	711.67	709.30	4.5-19.5	707.67-692.67	09/14/04	12.81	698.86
					12/20/04	12.68	698.99
					03/16/05	10.76	700.91
					06/13/05	8.98	702.69
					09/21/05	12.16	699.51
					12/05/05	9.21	702.46
					01/30/06	12.70	698.97
					03/13/06	11.25	700.42
					06/12/06	11.90	699.77
					10/13/06	12.79	698.88
					12/20/06	12.07	699.60
MW-154	714.22	NA	5-20	709.22-699.22	07/14/95	13.31	700.91
					09/11/95	13.42	700.80
					02/05/97	12.17	702.05
					02/26/97	13.07	701.15
					11/22/99	14.11	700.11
					02/28/00	13.38	700.84
	714.26	711.60	5-20	709.26-699.26	11/07/00	14.02	700.24
					06/21/01	13.79	700.47
					07/24/01	13.77	700.49
					01/30/02	13.88	700.38
					07/22/02	13.37	700.89
					12/03/03	13.57	700.69
					03/10/04	13.41	700.85
					06/02/04	13.44	700.82
					09/14/04	14.25	700.01
					12/20/04	13.51	700.75
					03/16/05	13.64	700.62
					06/13/05	13.35	700.91
					09/21/05	13.82	700.44
					12/05/05	14.15	700.11
					01/30/06	13.45	700.81
					03/13/06	11.50	702.76
					06/12/06	13.40	700.86
					10/13/06	14.10	700.16
					12/20/06	13.61	700.65
MW-156	711.69	NA	5-20	706.69-691.69	09/11/95	12.21	699.48
					02/05/97	10.65	701.04
					11/22/99	12.52	699.17
					02/28/00	12.41	699.28
					11/07/00	12.66	699.06
					06/20/01	12.43	699.29
					07/24/01	12.35	699.37
					01/30/02	12.25	699.47
					07/18/02	11.46	700.26
					12/04/03	11.97	699.75
					03/10/04	11.82	699.87
					06/02/04	11.48	700.21
					07/16/04	12.09	699.60
					08/16/04	12.36	699.33
					09/14/04	12.55	699.14
					10/18/04	12.54	699.15
					11/19/04	12.40	699.29
					12/20/04	12.40	699.29
					01/24/05	10.65	701.04
					03/16/05	11.77	699.92
					06/13/05	11.61	700.08
					09/21/05	12.42	699.27
					12/05/05	12.71	698.98
					01/30/06	12.10	699.59
					03/13/06	11.15	700.54
					06/12/06	11.70	699.99
					10/13/06	12.51	699.18
					11/21/06	11.87	699.82
					12/20/06	12.09	699.60
MW-157	711.30	NA	5-20	706.30-691.30	02/05/97	10.71	700.59
					02/26/97	11.14	700.16
					02/28/00	12.40	698.90
	711.27	711.50	5-20	706.27-691.27	11/07/00	12.55	698.72
					06/21/01	12.34	698.93
					07/24/01	12.17	699.10
					01/30/02	12.18	699.09
					07/19/02	11.10	700.17
					12/04/03	11.80	699.47

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6091004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [2] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-157 (cont'd.)	711.27	711.50	5-20	706.27-691.27	03/03/04	10.62	700.65
					03/10/04	11.66	699.61
					06/02/04	12.94	698.33
					09/14/04	12.57	698.70
					12/20/04	12.19	699.08
					03/16/05	11.57	699.70
					06/13/05	11.67	699.60
					09/21/05	12.35	698.92
					06/12/06	11.60	699.67
					10/13/06	12.42	698.85
					12/20/06	11.81	699.46
MW-159	710.00	710.40	NA	NA	02/28/00	11.19	698.81[10]
					11/07/00	11.47	698.53
					06/21/01	11.43	698.57
					07/24/01	11.36	698.64
					01/30/02	11.22	698.78
					07/19/02	12.13	697.87
					03/10/04	12.15	697.85
					06/02/04	11.94	698.06
					09/21/05	12.20	697.80
					01/30/06	11.90	698.10
					03/15/06	11.35	698.65
					06/12/06	12.40	697.60
					10/13/06	14.69	695.31
					12/20/06	17.32	692.68
MW-160	701.1[10]	701.35[10]	3-13	698.10-688.10	11/07/00	2.17	698.93
					06/21/01	1.95	699.15
					07/24/01	2.16	698.94
					01/30/02	1.78	699.32
					07/17/02	2.31	698.79
					12/04/03	2.58	698.52
					03/10/04	2.55	698.55
					06/04/04	2.26	698.84
					09/14/04	2.70	698.40
					12/20/04	2.60	698.50
					03/16/05	2.66	698.44
					06/13/05	2.68	698.42
					09/23/05	2.62	698.48
					12/05/05	3.02	698.08
					01/30/06	1.90	699.20
					04/05/06	3.10	698.00
					06/12/06	2.72	698.38
					10/13/06	2.78	698.32
					12/20/06	2.50	698.60
MW-161	702.99[10]	703.38[10]	3-13	699.99-689.99	11/07/00	4.01	698.98
					06/21/01	3.69	699.30
					07/24/01	4.02	698.97
					1/30/2002	3.58	699.41
					07/18/02	4.17	698.82
					12/04/03	3.10	699.89
					03/10/04	1.07	701.92
					06/04/04	2.83	700.16
					09/14/04	4.20	698.79
					12/20/04	4.26	698.73
					03/16/05	4.06	698.93
					06/13/05	4.81	698.18
					09/23/05	4.00	698.99
					12/05/05	4.71	698.28
					01/30/06	3.60	699.39
					04/05/06	4.90	698.09
					06/12/06	4.32	698.67
					10/13/06	4.38	698.61
					12/20/06	4.11	698.88
MW-163	712.36	712.90	10-20	702.36-692.36	11/07/00	13.15	699.21
					06/20/01	12.83	699.53
					07/24/01	12.95	699.41
					01/30/02	12.83	699.53
					07/18/02	11.22	701.14
					07/16/04	12.03	700.33
					08/16/04	11.83	700.53
					10/18/04	12.64	699.72
					11/19/04	12.12	700.24
					12/20/04	11.67	700.69

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[2] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-163 (cont'd.)	712.36	712.90	10-20	702.36-692.36	01/24/05	9.95	702.41
					03/16/05	11.25	701.11
					06/13/05	10.98	701.38
					09/21/05	11.80	700.56
					12/05/05	11.54	700.82
					01/30/06	11.65	700.71
					03/13/06	10.75	701.61
					06/12/06	11.33	701.03
					10/13/06	12.18	700.18
					11/21/06	11.19	701.17
					12/20/06	11.54	700.82
MW-164	718.56	719.35	16-26	702.56-692.56	11/07/00	19.87	695.69
					06/21/01	19.67	698.89
					07/24/01	19.47	699.09
					01/30/02	19.45	699.11
					07/19/02	17.97	700.59
					12/05/03	18.75	699.81
					03/03/04	18.56	700.00
					03/10/04	18.60	699.96
					06/02/04	19.52	699.04
					09/14/04	19.42	699.14
					12/20/04	19.28	699.28
					03/16/05	18.29	700.27
					06/13/05	18.78	699.78
					09/21/05	19.60	698.96
					12/05/05	18.82	699.74
					01/30/06	19.50	699.06
					03/13/06	18.45	700.11
					06/12/06	19.50	699.06
					10/13/06	19.39	699.17
					12/20/06	18.80	699.76
MW-165S	712.54	712.88	10-20	702.54-692.54	06/21/01	13.80	698.74
					07/24/01	13.71	698.83
					01/30/02	13.52	699.02
					07/18/02	13.82	698.72
					12/05/03	13.56	698.98
					03/10/04	13.93	698.61
					06/02/04	13.69	698.85
					09/14/04	14.49	698.05
					12/20/04	14.20	698.34
					03/16/05	13.97	698.57
					06/13/05	13.29	699.25
					09/21/05	13.90	698.64
					12/05/05	14.35	698.19
					01/30/06	13.60	698.94
					03/13/06	13.00	699.54
					06/12/06	13.95	698.59
					10/13/06	18.35	694.19
					12/20/06	13.94	698.60
MW-166S	712.99	713.38	10-20	702.99-692.99	07/24/01	14.32	698.67
					01/30/02	14.32	698.67
					07/18/02	14.41	698.58
					12/19/03	14.69	698.30
					03/10/04	14.61	698.38
					06/02/04	14.28	698.71
					09/14/04	15.24	697.75
					12/20/04	14.92	698.07
					03/16/05	14.56	698.43
					06/13/05	13.98	699.01
					09/21/05	14.75	698.24
					12/05/05	15.00	697.99
					01/30/06	14.30	698.69
					03/13/06	13.60	699.39
					06/12/06	14.55	698.44
					10/13/06	14.89	698.10
					12/20/06	14.54	698.45
MW-167S	716.25	716.55	12-22	704.25-694.25	06/21/01	17.99	698.26
					07/24/01	17.81	698.44
					01/30/02	17.90	698.35
					07/17/02	17.74	698.51
					12/04/03	18.12	698.13
					03/10/04	18.00	698.25
					06/02/04	17.71	698.54
					09/14/04	18.75	697.50

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6091004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation [1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-167S (cont'd.)	716.25	716.55	12-22	704.25-694.25	12/20/04	18.39	697.86
					03/16/05	17.95	698.30
					06/13/05	18.20	698.05
					09/21/05	18.50	697.75
					12/05/05	17.20	699.05
					01/30/06	18.00	698.25
					03/13/06	17.10	699.15
					06/12/06	17.90	698.35
					10/13/06	18.83	697.42
					12/20/06	17.90	698.35
MW-168S	715.71	716.12	12-22	703.71-693.71	06/21/01	17.66	698.05
					07/24/01	17.60	698.11
	714.79	715.06	12-22	703.06-693.06	01/30/02	17.06	697.73
					7/18/2002	17.39	697.4
					03/10/04	17.43	697.36
					06/02/04	17.33	697.46
					09/14/04	18.18	696.61
					03/16/05	17.41	697.38
					06/13/05	17.12	697.67
					09/21/05	17.7	697.09
					12/05/05	18.02	696.77
					01/30/06	17.39	697.40
					03/13/06	16.21	698.58
					06/12/06	16.34	698.45
					10/13/06	18.12	696.67
					12/20/06	17.54	697.25
MW-169S	715.95	716.25	15-25	700.95-690.95	01/30/02	19.75	696.20
					07/17/02	18.91	697.04
					12/04/03	19.72	696.23
					03/10/04	19.47	696.48
					06/02/04	19.56	696.39
					09/14/04	20.50	695.45
					12/20/04	20.05	695.90
					03/16/05	18.91	697.04
					06/13/05	20.91	695.04
					09/21/05	20.62	695.33
					12/05/05	20.50	695.45
					01/30/06	19.80	696.15
					03/13/06	19.35	696.60
					06/12/06	19.30	696.65
					10/13/06	20.49	695.46
					12/20/06	19.32	696.63
MW-170S	717.40	717.77	17-27	700.40-690.40	01/30/02	20.45	696.95
					07/17/02	19.35	698.05
					03/10/04	20.19	697.21
					06/02/04	20.76	696.64
					09/14/04	21.23	696.17
					12/20/04	20.85	696.55
					06/15/05	20.68	696.72
					09/21/05	21.47	695.93
					12/05/05	22.31	695.09
					01/30/06	20.60	696.80
					03/13/06	20.10	697.30
					06/12/06	19.90	697.50
					10/13/06	21.20	696.20
					12/20/06	19.98	697.42
MW-171S	711.83	712.19	12-22	699.83-689.83	01/30/02	15.29	696.54
					07/17/02	15.02	696.81
					03/10/04	15.14	696.69
					12/20/04	15.55	696.28
					09/21/05	15.68	696.15
					12/05/05	15.42	696.41
					10/13/06	16.33	695.50
MW-172S	716.23	716.58	15-25	701.58-691.58	09/04/02	20.45	695.78
					03/10/04	19.61	696.62
					06/02/04	19.78	696.45
					09/14/04	20.93	695.30
					12/20/04	20.24	695.99
					3/16/2005	18.95	697.28
					06/13/05	Abandoned	

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-173	713.23	713.61	8-18	705.61-695.61	3/3/2004	12.72	700.51
					7/16/2004	12.99	700.24
					8/16/2004	13.06	700.17
					10/18/2004	13.56	699.67
					11/19/2004	13.38	699.85
					12/20/04	13.45	699.78
					1/24/2005	10.55	702.68
					3/16/2005	12.21	701.02
					6/13/2005	12.85	700.38
					9/21/2005	13.50	699.73
					12/5/2005	12.81	700.42
					1/30/2006	13.30	699.93
					3/13/2006	12.30	700.93
					6/12/2006	12.60	700.63
					10/13/2006	13.59	699.64
					11/21/2006	12.96	700.27
					12/20/2006	13.03	700.20
IW-1	712.54	712.95	10.5-15.5	702.45-697.45	3/3/2004	11.78	700.76
					7/16/2004	12.11	700.43
					8/16/2004	12.05	700.49
					10/18/2004	12.37	700.17
					11/19/2004	12.29	700.25
					12/20/04	12.02	700.52
					1/24/2005	10.11	702.43
					3/16/2005	11.31	701.23
					6/13/2005	11.12	701.42
					9/21/2005	11.90	700.64
					12/5/2005	10.12	702.42
					1/30/2006	11.80	700.74
					3/13/2006	10.80	701.74
					6/12/2006	11.45	701.09
					10/13/2006	12.19	700.35
					11/21/2006	11.35	701.19
					12/20/2006	11.70	700.84
IW-2	712.83	713.27	12-17	701.27-696.27	3/3/2004	12.23	700.60
					7/16/2004	12.70	700.13
					8/16/2004	13.10	699.73
					10/18/2004	13.25	699.58
					11/19/2004	13.05	699.78
					12/20/04	13.20	699.63
					1/24/2005	10.03	702.80
					3/16/2005	12.19	700.64
					6/13/2005	11.98	700.85
					9/21/2005	13.06	699.77
					12/5/2005	11.72	701.11
					1/30/2006	12.90	699.93
					3/13/2006	11.85	700.98
					6/12/2006	12.20	700.63
					10/13/2006	13.18	699.65
					11/21/2006	12.56	700.27
					12/20/2006	12.62	700.21
Deep Wells							
MW-165D	712.34	712.78	42-47	670.34-665.34	01/30/02	13.33	699.01
					07/18/02	13.66	698.68
					12/05/03	13.51	698.83
					03/10/04	13.71	698.63
					06/02/04	13.49	698.85
					09/14/04	14.29	698.05
					12/20/04	14.00	698.34
					03/16/05	13.78	698.56
					06/13/05	13.10	699.24
					09/21/05	13.75	698.59
					12/05/05	14.20	698.14
					01/30/06	13.45	698.89
					03/13/06	12.80	699.54
					06/12/06	13.73	698.61
					09/26/06	14.04	698.30
					12/20/06	13.72	698.62
MW-166D	712.76	713.04	46-51	666.76-661.76	01/30/02	14.10	698.66
					07/18/02	14.08	698.68
					01/06/04	13.03	699.73
					03/10/04	14.35	698.41
					06/02/04	14.09	698.67
					09/14/04	15.02	697.74
					12/20/04	14.73	698.03
					03/16/05	14.36	698.40

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation [1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-166D (cont'd.)	712.76	713.04	46-51	666.76-661.76	06/13/05	14.22	698.54
					09/21/05	14.55	698.21
					12/05/05	15.15	697.61
					01/30/06	14.36	698.40
					03/13/06	13.35	699.41
					06/12/06	14.32	698.44
					09/26/06	14.74	698.02
					12/20/06	14.34	698.42
MW-167D	716.25	716.60	28-33	688.25-683.25	01/30/02	17.90	698.35
					07/17/02	17.73	698.52
					12/04/03	18.18	698.07
					03/10/04	18.04	698.21
					06/02/04	17.72	698.53
					09/14/04	18.79	697.46
					12/20/04	18.47	697.78
					03/16/05	17.85	698.40
					06/13/05	18.24	698.01
					09/21/05	18.53	697.72
					12/05/05	18.32	697.93
					01/30/06	18.00	698.25
					03/13/06	17.20	699.05
					06/12/06	17.92	698.33
					09/26/06	18.51	697.74
					12/20/06	17.97	698.28
MW-168D	714.71	715.09	26-31	688.71-683.71	01/30/02	17.00	697.71
					07/18/02	17.27	697.44
					06/02/04	17.28	697.43
					09/14/04	18.15	696.56
					12/20/04	17.81	696.90
					03/16/05	16.38	698.33
					06/13/05	26.21	688.50
					09/21/05	17.70	697.01
					12/05/05	20.22	694.49
					01/30/06	17.50	697.21
					03/13/06	16.35	698.36
					06/12/06	16.33	698.38
					09/26/06	17.93	696.78
					12/20/06	17.39	697.32
MW-169D	715.23	716.23	32-37	683.23-678.23	01/30/02	19.65	695.58
					07/17/02	18.82	696.41
					12/04/03	19.66	695.57
					03/10/04	19.41	695.82
					06/02/04	19.52	695.71
					09/14/04	20.45	694.78
					12/20/04	20.10	695.13
					03/16/05	18.93	696.30
					06/13/05	20.00	695.23
					09/21/05	20.63	694.60
					12/05/05	20.62	694.61
					01/30/06	19.83	695.40
					03/13/06	19.33	695.90
					06/12/06	19.24	695.99
					09/26/06	20.39	694.84
					12/20/06	19.30	695.93
MW-170D	717.34	717.76	34-39	683.34-678.34	01/30/02	20.40	696.94
					07/17/02	19.29	698.05
					03/10/04	20.13	697.21
					06/02/04	20.21	697.13
					09/14/04	21.17	696.17
					12/20/04	20.78	696.56
					06/15/05	20.63	696.71
					09/21/05	21.40	695.94
					12/05/05	21.21	696.13
					01/30/06	20.90	696.44
					03/13/06	20.00	697.34
					06/12/06	19.80	697.54
					09/26/06	21.02	696.32
					12/20/06	19.92	697.42

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation [2] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-171D	711.88	712.15	44-49	667.88-662.88	01/30/02	15.73	696.15
					07/17/02	15.16	696.72
					03/10/04	15.51	696.37
					12/20/04	15.98	695.90
					09/21/05	16.20	695.68
					12/05/05	16.23	695.65
					06/12/06	15.48	696.40
					09/26/06	16.21	695.67
MW-172D	716.03	716.53	33-38	683.53-678.53	09/04/02	20.17	695.86
					03/10/04	19.43	696.60
					06/02/04	19.61	696.42
					09/14/04	20.57	695.46
					12/20/04	20.14	695.89
					03/16/05	18.71	697.32
					09/13/05	Abandoned	
MW-301	712.75		45-50	667.75-662.75	02/05/97	11.75	701.00
					11/22/99	13.77	698.98
					02/28/00	17.50	699.25
	712.75	713.20	45-50	667.75-662.75	11/07/00	13.76	698.99
					06/20/01	13.57	699.18
					07/24/01	13.59	699.16
					01/30/02	13.31	699.44
					07/18/02	12.78	699.97
					03/10/04	13.74	699.01
					06/02/04	13.11	699.64
					09/14/04	13.79	698.96
					12/20/04	13.29	699.46
					03/16/05	11.89	700.86
					06/13/05	13.51	699.24
					09/21/05	13.63	699.12
					12/05/05	13.45	699.30
					01/30/06	13.10	699.65
					03/13/06	12.00	700.75
					06/12/06	13.56	699.19
					09/26/06	13.50	699.25
					12/20/06	13.21	699.54
MW-302	711.54	NA	45-55	666.54-656.54	02/05/97	11.26	700.28
					02/26/97	12.33	699.21
					11/22/99	13.26	698.28
					02/28/00	12.70	698.84
	711.60	709.60	45-55	666.60-656.60	11/07/00	13.00	698.60
					06/21/01	12.99	698.61
					07/24/01	12.82	698.78
					01/30/02	12.61	698.99
					07/22/02	12.90	698.7
					03/10/04	12.93	698.67
					06/02/04	12.68	698.92
					09/14/04	13.56	698.04
					12/20/04	12.24	699.36
					03/16/05	13.08	698.52
					06/13/05	12.98	698.62
					09/21/05	12.95	698.65
					12/05/05	13.02	698.58
					01/30/06	11.50	700.10
					03/13/06	12.00	699.60
					06/12/06	13.00	698.60
					09/26/06	13.29	698.31
					12/20/06	12.98	698.62

[1] For wells surveyed more than once, subsequent survey information is listed with the first gauging event following the survey.
[2] Survey data from 3-6-02 were used to calculate all groundwater and screen elevations.
[3] Survey data from 11-7-00 were used to calculate the groundwater elevation.

amsl - above mean sea level
BGS - below ground surface
DTW - depth to water
GW - groundwater
NA Information is not available
SW - surface water
TOC - top of well casing

Table 2a

Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP 6051004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-10-1	3/28/1994	7-17	NA	NA	NA	[illegible]	[illegible]	NA	NA	[illegible]	NA	<200
	[illegible]		NA	NA	NA	ND	ND	NA	NA	[illegible]	NA	NA
	[illegible]		W5020191-13	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	NA	<10
	2/5/1997		W7020074-01	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	NA	<10
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<1.0	[illegible]	<1.0	<1.0
MW-10-16	[illegible]	7-17	[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<10	<10	[illegible]	<10	[illegible]	<10	[illegible]	<10	<10
	[illegible]		[illegible]	<10	<10	[illegible]	<10	[illegible]	<10	[illegible]	<10	<10
	[illegible]		[illegible]	<10	<10	[illegible]	<10	<10	<10	[illegible]	<10	<10
	[illegible]		[illegible]	<10	<10	[illegible]	<10	<10	<10	[illegible]	<10	<10
MW-132	[illegible]	10-20	NA	NA	NA	[illegible]	[illegible]	NA	NA	[illegible]	NA	[illegible]
	[illegible]		[illegible]	<20	<20	[illegible]	<20	<200	<20	[illegible]	NA	<200
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	NA	[illegible]
	2/5/1997		[illegible]	<120	<120	[illegible]	<120	<120	<120	[illegible]	NA	<220
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	[illegible]	[illegible]	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
MW-132B	[illegible]	10-20	[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
MW-133	[illegible]	8-18	NA	NA	NA	[illegible]	[illegible]	NA	NA	[illegible]	NA	<20
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<1.0	[illegible]	NA	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	NA	<10
	2/5/1997		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	NA	<10
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	[illegible]	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	[illegible]	<5.0	[illegible]
MW-133B	[illegible]	8-18	[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	[illegible]	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
MW-135	[illegible]	10-20	NA	NA	NA	<5	<5	NA	NA	<5.0	NA	<2.0
	[illegible]		NA	NA	NA	<5	<5	NA	NA	<5.0	NA	<2.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	NA	<2.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	2/5/1997		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-165	[illegible]	17.5-27.5	[illegible]	<5	<5	[illegible]	<5	<80	<5	[illegible]	NA	<20
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5	<5.0	[illegible]	NA	[illegible]
	2/5/1997		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	NA	<10
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<10	<10	[illegible]	<10	<10	<10	<10	<10	<10
MW-166	[illegible]	15-25	[illegible]	[illegible]	<1.0	<1.0	<1.0	<10	<1.0	[illegible]	NA	<5
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	[illegible]	NA	<10
	2/5/1997		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	NA	<10
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	[illegible]	<5.0	<2.0
Tier II Residential Cleanup Goals - Groundwater[a]				0.200	7	70	120	6.50	5	5	15	2
Tier II Non-Residential Cleanup Goals - Groundwater[b]				30.1	7	1,020	2,040	381	30.1	200	5,110	11

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP [illegible]
KERAMIDA Project No. [illegible]

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-140 (cont'd)	[illegible]	15-25	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<5.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<5.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<5.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<5.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<5.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<5.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	[illegible]	<1.0	<1.0
	[illegible]		NS									
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
MW-141	[illegible]	20-30	[illegible]	<1.0	<1.0	[illegible]	<1.0	<5.0	<1.0	[illegible]	NA	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	NA	<10
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	NA	<10
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-147A	[illegible]	20-30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-147AR	[illegible]	20-30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-149	[illegible]	10.5-25.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-149R	[illegible]	10.5-25.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-150	[illegible]	4-19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-151	[illegible]	5-20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tier II Residential Cleanup Goals - Groundwater				[illegible]	7	70	[illegible]	[illegible]	5	5	[illegible]	2
Tier II Non-Residential Cleanup Goals - Groundwater				[illegible]	7	1,022	[illegible]	[illegible]	[illegible]	200	[illegible]	[illegible]

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 20390

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-131 (cont'd)	9/27/2006	5-20	[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	11/21/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/21/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
MW-132	3/14/1995	5-20	[illegible]	<5.0	<5.0	[illegible]	<5.0	<5	<5.0	[illegible]	NA	<10
	2/6/1997		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	NA	<10
	12/22/1999		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	[illegible]	<5.0	<5.0
	2/28/2000		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	[illegible]	<5.0	<5.0
	11/8/2000		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	[illegible]	<5.0	<2.0
	6/20/2001		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	[illegible]	<5.0	<2.0
	3/15/2002		[illegible]	<1.0	<1.0	[illegible]	<1.0	<5.0	<1.0	[illegible]	<1.0	<1.0
	12/03/2003		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	3/11/2004		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	6/4/2004		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	6/15/2004		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/21/2004		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	3/16/2005		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	6/15/2005		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	9/22/2005		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/7/2005		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	3/14/2006		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	6/14/2006		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	9/26/2006		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/20/2006		[illegible]	<10	<10	<10	<10	<10	<10	[illegible]	<10	<10
MW-133	3/14/1995	4.5-19.5	[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	NA	[illegible]
	2/6/1997		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	NA	<10
	2/6/1997		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	12/22/1999		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	[illegible]
	2/28/2000		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	[illegible]
	6/5/2001		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	[illegible]	<5.0	<2.0
	6/20/2001		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	3/15/2002		[illegible]	<5.0	[illegible]	[illegible]	[illegible]	<10	<5.0	[illegible]	<5.0	[illegible]
	3/7/2003		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<5.0	<1.0	[illegible]	<1.0	[illegible]
	3/7/2003		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<5.0	<1.0	[illegible]	<1.0	[illegible]
	8/27/2003		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<5.0	<1.0	[illegible]	<1.0	[illegible]
	12/03/2003		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<5.0	<2.0
	12/03/2003		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<5.0	<2.0
	3/11/2004		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<5.0	<2.0
	3/11/2004		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<5.0	<2.0
	6/4/2004		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<5.0	<2.0
	6/4/2004		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<5.0	<2.0
	6/15/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	6/15/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/21/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/21/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	3/16/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	3/16/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	6/15/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	6/15/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	9/22/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	9/22/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/7/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/7/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	3/14/2006		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	3/14/2006		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	6/13/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	6/13/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	9/26/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	9/26/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/12/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/20/2006		[illegible]	<10	<10	[illegible]	<10	<10	<10	[illegible]	<10	<10
	12/20/2006		[illegible]	<10	<10	[illegible]	<10	<10	<10	[illegible]	<10	<10
MW-134	3/14/1995	5-20	[illegible]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	NA	<10
	2/6/1997		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	12/22/1999		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	2/28/2000		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	6/21/2001		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	3/15/2002		[illegible]	<1.0	<1.0	[illegible]	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	12/03/2003		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/22/2004		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2005		[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	<1.0
	12/6/2005		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2006		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-150	3/13/1995	5-20	[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	NA	<10
	2/6/1997		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	NA	<10
	2/6/1997		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	NA	<10
	12/22/1999		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	[illegible]	<5.0	<5.0
	2/28/2000		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	[illegible]	<5.0	<5.0
	11/8/2000		[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	[illegible]	<5.0	<2.0
	6/20/2001		[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	[illegible]	<5.0	<2.0
	3/18/2002		[illegible]	[illegible]	<1.0	[illegible]	<1.0	<5.0	<1.0	[illegible]	<1.0	<1.0
	12/09/2003		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	3/11/2004		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	6/11/2004		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	6/11/2004		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]	<5.0	<2.0
	7/16/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	8/18/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	9/14/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	10/18/2004		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	11/18/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/22/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	2/28/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	3/16/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	6/14/2005		[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	9/23/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/7/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	3/15/2006		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0
	6/14/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	9/27/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/11/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	12/21/2006		[illegible]	<10	<10	[illegible]	<10	<10	<10	[illegible]	<10	<10
Tier II Residential Cleanup Goals - Groundwater				0.249	7	70	120	6.36	5	5	11.9	2
Tier II Non-Residential Cleanup Goals - Groundwater				46.1	7	1,022	2,040	381	20.1	200	3.11E	10

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6970304
KERAMIDA Project No. 20290

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-157	[illegible]	5-20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-160	[illegible]	3-13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-161	[illegible]	3-13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-163	[illegible]	10-20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-164	[illegible]	16-26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-1010	[illegible]	10-20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tier II Residential Cleanup Goals - Groundwater				0.180	7	70	110	4.93	5	5	5.117	2
Tier II Non-Residential Cleanup Goals - Groundwater				46.7	7	1,022	2,044	182	28.1	288	5,110	40

See last page for Footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2839E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-166S	[illegible]	10-20	[illegible]	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<10	<10	[illegible]	[illegible]	<10	<10	<10	<10	[illegible]
	[illegible]		[illegible]	<10	<10	[illegible]	[illegible]	[illegible]	<10	<10	<10	[illegible]
	[illegible]		[illegible]	<10	<10	[illegible]	[illegible]	<10	<10	<10	<10	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
MW-167S	[illegible]	12-22	[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-168S	[illegible]	12-22	[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<5.0	[illegible]	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	<1.0	<5.0	[illegible]	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	[illegible]	[illegible]	<1.0	[illegible]
MW-169S	[illegible]	15-25	[illegible]	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
MW-171	[illegible]	8-18	[illegible]	<1.0	NA	NA	NA	NA	NA	[illegible]	NA	NA
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<10	<10	[illegible]	<10	<10	<10	[illegible]	<10	<10
IW-1	[illegible]	10.5-15.5	[illegible]	NA	NA	NA	NA	NA	NA	[illegible]	NA	NA
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	[illegible]	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	[illegible]	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	<1.0
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	[illegible]	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	[illegible]	<1.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<20	<20	[illegible]	<20	[illegible]	<1.0	<20	<20	[illegible]
Tier II Residential Cleanup Goals - Groundwater				[illegible]	7	70	[illegible]	[illegible]	5	5	[illegible]	2
Tier II Non-Residential Cleanup Goals - Groundwater				[illegible]	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

See last page for footnotes

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP 9699104
KERAMIDA Project No. 2839E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
IW-2	3/3/2004	12-17	[illegible]	<1.0	NA	NA	NA	NA	NA	[illegible]	NA	NA
	3/18/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	<2.0
	6/16/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	<2.0
	10/18/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	<2.0
	11/30/2004		[illegible]	<1.0	[illegible]	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	[illegible]
	12/21/2004		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	[illegible]
	3/24/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	[illegible]
	[illegible]		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	[illegible]
	6/14/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	[illegible]	<5.0	[illegible]	<1.0	<2.0
	8/23/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	<2.0
	11/1/2005		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	<2.0
	3/13/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	<2.0
	6/13/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	<2.0
	9/26/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	<2.0
	11/15/2006		[illegible]	<1.0	<1.0	[illegible]	[illegible]	<5.0	<5.0	[illegible]	<1.0	[illegible]
	12/21/2006		[illegible]	<10	<10	[illegible]	<20	<50	<20	[illegible]	<20	<20
Tier II Residential Cleanup Goals - Groundwater[1]				0.189[2]	7	70	100[*]	6.8[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater[1]				46.[illegible][2]	7	1,0[illegible]	2,040[*]	583[2]	58.1	360	4,[illegible][2]	10

[illegible]

[illegible]

[illegible]

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated   NA = Not Applicable   NS = Not Sampled
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethylene results are combined
[1] Indiana Department of Environmental Management/Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996.
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Exceeded analytical holding time for vinyl chloride.
[4] Exceeded analytical holding time.
[5] Exceeded analytical holding time for cis-1,2-Chloroethene.

Table 2b
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP 6691004
KERAMIDA Project No. 28295

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-102D	1/30/2002	42-47	312999	<5.0	[illegible]	[illegible]	[illegible]	<10	<5.0	<5.0	<5.0	[illegible]
	7/18/2002		324130	<1.0	[illegible]	[illegible]	[illegible]	<5.0	<1.0	<1.0	<1.0	[illegible]
	12/05/2003		300082[illegible]	<5.0	[illegible]	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	3/11/2004		30023[illegible]	<5.0	[illegible]	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	6/3/2004		300491041	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	6/3/2004		300491041	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	8/14/2004		A675199	<25	<25	[illegible]	<25	<25	<25	<25	<25	[illegible]
	12/20/2004		A685807	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/15/2005		A693378	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/15/2005		A702971	<1.0	[illegible]	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	[illegible]
	9/21/2005		A713001[1]	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/6/2005		A721008	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/14/2006		A728854	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/13/2006		A737747	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	9/21/2006		A747972	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/21/2006		A756735	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
MW-106D	1/31/2002	49-51	313000	<5.0	[illegible]	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	[illegible]
	7/18/2002		324107	<1.0	[illegible]	[illegible]	[illegible]	<5.0	<1.0	<1.0	<1.0	[illegible]
	1/8/2004		300079204	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	1/8/2004		300079212	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	3/11/2004		300237059	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	6/3/2004		300492977	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	8/14/2004		A675201	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/20/2004		A685809	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/15/2005		A693381	<1.0	[illegible]	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	[illegible]
	6/15/2005		A702974	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2005		A712999[2]	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/6/2005		A721012	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/14/2006		A728858	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/13/2006		A737748	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	9/21/2006		A747973	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/21/2006		A756736	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
MW-107D	1/31/2002	28-33	313005	<5.0	<5.0	[illegible]	[illegible]	<10	<5.0	<5.0	<5.0	[illegible]
	7/17/2002		324025	<1.0	<1.0	[illegible]	[illegible]	<5.0	<1.0	<1.0	<1.0	[illegible]
	12/04/2003		300082577	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	12/04/2003		300082685	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	3/11/2004		300237001	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	6/3/2004		300492207	<5.0	<5.0	[illegible]	[illegible]	<5.0	<5.0	<5.0	<5.0	[illegible]
	8/14/2004		A675203	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	8/14/2004		A675205	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/21/2004		A685813	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/21/2004		A685824	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	[illegible]	<1.0	[illegible]
	3/15/2005		A693378	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/15/2005		A693400	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/15/2005		A702968	<1.0	<1.0	[illegible]	[illegible]	[illegible]	<1.0	<1.0	<1.0	[illegible]
	9/21/2005		A713019	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	9/21/2005		A713020	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	11/7/2005		A717609	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/6/2005		A721002	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/6/2005		A721003	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/15/2006		A728629	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/15/2006		A728630	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/12/2006		A737740	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/12/2006		A737741	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	9/21/2006		A747968	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	9/21/2006		A747970	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/21/2006		A756782	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/21/2006		A756784	<1.0	<1.0	[illegible]	[illegible]	<1.0	<1.0	<1.0	<1.0	[illegible]
MW-108D	1/31/2002	28-31	313004	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/18/2002		324132	<1.0	<1.0	[illegible]	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	11/7/2005		A717642	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
MW-109D	1/30/2002	52-57	312996	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	[illegible]
	7/17/2002		324020	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	[illegible]
	12/04/2003		300082701	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	3/11/2004		300237054	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	6/3/2004		300493082	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	8/14/2004		A675206	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	[illegible]
	12/21/2004		A685811	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/15/2005		A693373	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/15/2005		A702965	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0	[illegible]	[illegible]
	9/22/2005		A713021[4]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	11/7/2005		A717637	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/6/2005		A721001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/15/2006		A728627	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/12/2006		A737737	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	9/21/2006		A747987	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/21/2006		A756780	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
MW-302	2/8/1997	45-55	W7020874-18	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/15/1999		232785	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	2/28/2000		266593	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	11/8/2000		288710	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	6/21/2001		296605	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324186	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	[illegible]
	12/03/2003		305800719	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	[illegible]
	3/11/2004		NS									
	6/11/2004		305518120	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/15/2004		A675227	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	12/22/2004		A685922	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	3/16/2005		A693193	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	6/15/2005		A702992	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	[illegible]
	9/22/2005		A713005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tier II Residential Cleanup Goals - Groundwater [1]				0.389[2]	7	70	120[2]	6.30[2]	5	5	12.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				48.1[2]	7	1,022	2,040[2]	381[2]	56.1	200	5,110[2]	10

See last page for footnotes.

Table 2b

Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6091004
KERAMIDA Project No. 20290

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,3-Dichloropropene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-302 (cont'd.)	12/5/2005	45-55	A721017	<1.0	<1.0	<2.0	<1.0	<1.0	<2.0	<1.0	<2.0	
	3/14/2006		A728681	<1.0	<1.0	<2.0	<1.0	<1.0	<2.0	<1.0	<2.0	
	6/13/2006		A737734	<1.0	<1.0	<2.0	<1.0	<1.0	<3.0	<1.0	<3.0	
	9/29/2006		A747982	<1.0	<1.0	<2.0	<1.0	<1.0	<3.0	<1.0	<3.0	<3.0
	12/20/2006		A756701	<1.0	<1.0	<2.0	<1.0	<1.0	<3.0	<1.0	<3.0	
Tier II Residential Cleanup Goals - Groundwater [1]				0.209[2]	7	70	120[2]	8.30[2]	4	5	13.2[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				48.1[2]	7	1,022	2,040[2]	281[2]	50.1	260	5,118[2]	10

VOCs = Volatile Organic Compounds
Samples analyzed using SW-846 Method 8260
ug/L = micrograms per liter NS = Not Sampled
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals Human Health Evaluation by Office of Environmental Response, July 1996.
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Exceeded analytical holding times for cis-1,2-Dichloroethene and vinyl chloride.
[4] Exceeded analytical holding time for vinyl chloride.

Table 3
Shallow Monitoring Well Groundwater Analytical Results for PAHs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP [illegible]
KERAMIDA Project No. [illegible]

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene
MW-10-I	7/19/2002	7-17	324137	<1.02	<1.02	<1.02	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.02	<0.20
MW-10-I Dup.	7/19/2002	7-17	324138	<1.02	<1.02	<1.02	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.02	<0.20
MW-10-IR	12/03/2003	7-17	503002107	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10
MW-10-IR DUP	12/03/2003	7-17	503002119	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10
MW-10-IR	12/22/2004	7-17	A685806	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-10-IR	12/7/2005	7-17	A721022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-10-IR Dup.	12/7/2005	7-17	A721023	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-10-IR	12/20/2006	7-17	A756796	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-10-IR Dup.	12/20/2006	7-17	A756797	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13S	7/22/2002	10-20	324198	<1.01	<1.01	<1.01	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.01	<0.20
MW-13S	12/03/2003	10-20	503002123	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10
MW-13S	12/21/2004	10-20	A685835	[illegible]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13S	12/6/2005	10-20	A721018	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13S	12/20/2006	10-20	A756757	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13D	12/04/2003	8-18	503002131	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10
MW-13D	12/21/2004	8-18	A685830	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13D	12/7/2005	8-18	A721020	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13D	12/20/2006	8-18	A756762	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13I	8/20/2001	10-20	296595	<10	<10	<6.6	<0.20	<0.20	<0.20	<0.36	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20
MW-13I	7/15/2002	10-20	324015	<1.02	<1.02	<1.02	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.02	<0.20
MW-13I	12/04/2003	10-20	503002140	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10
MW-13I	12/21/2004	10-20	A685837	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13I	12/6/2005	10-20	A721032	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-13I	12/21/2006	10-20	A756769	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14I	8/21/2001	17.5-27.5	296418	<10	<10	<6.6	<0.20	<0.20	<0.20	<0.36	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20
MW-14I	7/22/2002	17.5-27.5	324184	<1.02	<1.02	<1.02	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.02	<0.20
MW-14I	12/04/2003	17.5-27.5	503002053	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10
MW-14I	12/21/2004	17.5-27.5	A685819	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14I	12/6/2005	17.5-27.5	A721034	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14I	12/20/2006	17.5-27.5	A756763	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14S	8/21/2001	15-25	296419	<10	<10	<6.6	<0.20	<0.20	<0.20	<0.36	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20
MW-14S	7/15/2002	15-25	324017	<1.02	<1.02	<1.02	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.02	<0.20
MW-14S	12/03/2003	15-25	503002061	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10
MW-14S	12/21/2004	15-25	A685828	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14S	12/6/2005	15-25	A721053	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14S	12/20/2006	15-25	A756765	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14D	8/21/2001	10.5-25.5	296407	<10	<10	<6.6	<0.20	<0.20	<0.20	<0.36	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20
MW-14D Dup.	8/21/2001	10.5-25.5	296408	<10	<10	<6.6	<0.20	<0.20	<0.20	<0.36	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20
MW-14D	7/22/2002	10.5-25.5	324180	<1.05	<1.05	<1.05	<0.10	<0.20	<0.20	<0.21	<0.20	<0.20	<0.10	<0.21	<1.05	<0.21
MW-14D	12/03/2003	10.5-25.5	503002079	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10
MW-14D	12/21/2004	10.5-25.5	A685831	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14D	12/7/2005	10.5-25.5	A721008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14D	12/7/2005	10.5-25.5	A721016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-14DR	12/20/2006	10.5-25.5	A756758	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
Tier II Residential Cleanup Goals - Groundwater [1]				1,820	6.00[2]	9,120	0.10	0.20	0.20	38.4[2]	0.20	0.20	0.30	243.2	1,216	0.40
Tier II Non-Residential Cleanup Goals - Groundwater [1]				6,132	2,040[2]	30,660	10	1.0	10	613[2]	39.2	391.8	10	817.6	4,088	10

[illegible]

PAHs = Polynuclear Aromatic Hydrocarbons   Samples analyzed using EPA SW-846 Method 8310

µg/L = micrograms per liter   E = result is estimated

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix 1 Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations

Table 3
Shallow Monitoring Well Groundwater Analytical Results for PAHs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP 6051004
KERAMIDA Project No. 2029E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene
MW-150	6/20/2001	4-19	296390	<10	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20
MW-150	7/15/2002	4-19	324139	<1.01	<1.01	<1.01	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.01	<0.20
MW-150	12/03/2003	4-19	300002529	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0	< 1.0	< 0.10
MW-150	12/21/2004	4-19	A605827	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.02
MW-150	12/7/2005	4-19	A721030	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-150	12/21/2006	4-19	A756770	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-152	6/20/2001	5-20	296401	<10	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20
MW-152	7/15/2002	5-20	324614	<1.02	<1.02	<1.02	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.02	<0.20
MW-152	12/03/2003	5-20	300002537	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0	< 1.0	< 0.10
MW-152	12/21/2004	5-20	A605826	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.02
MW-152	12/7/2005	5-20	A721021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-152	12/20/2006	5-20	A756764	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-153	7/22/2002	4.5-19.5	324185	<1.00	<1.00	<1.00	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.00	<0.20
MW-153	12/03/2003	4.5-19.5	300002545	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0	< 1.0	< 0.10
MW-153DUP	12/03/2003	4.5-19.5	300002552	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0	< 1.0	< 0.10
MW-153	12/22/2004	4.5-19.5	A605835	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.02
MW-153	12/7/2005	4.5-19.5	A721018	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-153 Dup.	12/7/2005	4.5-19.5	A721019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-153	12/20/2006	4.5-19.5	A756759	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-153 Dup.	12/20/2006	4.5-19.5	A756760	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-154	6/21/2001	5-20	296410	<10	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20
MW-154	7/22/2002	5-20	324191	<1.02	<1.02	<1.02	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.20	<1.02	<0.20
MW-154	12/03/2003	5-20	300002560	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0	< 1.0	< 0.10
MW-154	12/22/2004	5-20	A605834	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.02
MW-154	12/6/2005	5-20	A721013	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
MW-154	12/20/2006	5-20	A756755	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02
Tier II Residential Cleanup Goals - Groundwater[1]				1,824	5.83[2]	9,120	0.10	0.20	0.20	38.4[2]	0.20	0.20	0.30	245.3	1,216	0.40
Tier II Non-Residential Cleanup Goals - Groundwater[1]				6,132	2,940[2]	30,660	10	10	10	617[2]	20.2	391.8	10	817.6	4,088	10

Indicates concentration exceeds the IDEM Tier II Non-Residential Cleanup Goal

[illegible]

[illegible]

PAHs = Polynuclear Aromatic Hydrocarbons   Samples analyzed using EPA SW-846 Method 8310

µg/L = micrograms per liter   E = result is estimated

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals/Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations

Table 4
Shallow Monitoring Well Groundwater Analytical Results for Metals (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6001004
KERAMIDA Project No. 2820E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Total Cadmium	Total Chromium	Total Lead
MW-10-1	11/8/2000	7-17	280649	<5.0	<10	[redacted]
MW-10-1	7/19/2002	7-17	324157	<5.0	<10	<5.0
MW-10-1 Dup	7/19/2002	7-17	324158	<5.0	<10	<5.0
MW-10-1R	12/03/2003	7-17	503002107	<5.0	<10	<10
MW-10-1RDUP	12/03/2003	7-17	503002135	<5.0	<10	<10
MW-10-1R	12/23/2004	7-17	A685836	<5.0	<10	<10
MW-10-1R	12/7/2005	7-17	A721021	<5.0	<10	<10
MW-10-1R Dup.	12/7/2005	7-17	A721023	<5.0	<10	<10
MW-10-1R	12/20/2006	7-17	A750386	<5.0	<10	<10
MW-10-1R Dup	12/20/2006	7-17	A750387	<5.0	<10	<10
MW-1332	7/22/2002	10-20	324190	<5.0	<10	NA
MW-1332	12/03/2003	10-20	503002135	<5.0	[redacted]	<10
MW-1332	12/23/2004	10-20	A685833	<5.0	[redacted]	<10
MW-1332	12/6/2005	10-20	A721014	<5.0	[redacted]	[redacted]
MW-1332R	12/20/2006	10-20	A750357	<5.0	<10	<10
MW-1350	12/04/2003	8-18	503002131	<5.0	<10	<10
MW-1350	12/23/2004	8-18	A685830	<5.0	[redacted]	[redacted]
MW-1350	12/7/2005	8-18	A721020	<5.0	<10	<10
MW-1350	12/20/2006	8-18	A750362	<5.0	[redacted]	[redacted]
MW-133	11/8/2000	10-20	280651	<5.0	[redacted]	[redacted]
MW-133	6/20/2001	10-20	296385	<5.0	[redacted]	<5.0
MW-133	7/15/2002	10-20	324035	<1.0	[redacted]	<1.0
MW-133	12/04/2003	10-20	503002149	<5.0	[redacted]	<10
MW-133	12/21/2004	10-20	A685831	<5.0	[redacted]	[redacted]
MW-133	12/6/2005	10-20	A721032	[redacted]	[redacted]	[redacted]
MW-133	12/21/2006	10-20	A750389	<5.0	[redacted]	<10
MW-145	11/8/2000	17.5-27.5	280682	<5.0	[redacted]	[redacted]
MW-145	6/21/2001	17.5-27.5	296418	<5.0	<10	[redacted]
MW-145	7/22/2002	17.5-27.5	324184	<5.0	<10	<5.0
MW-145	12/04/2003	17.5-27.5	503002455	<5.0	<10	<10
MW-145	12/21/2004	17.5-27.5	A685829	<5.0	[redacted]	[redacted]
MW-145	12/6/2005	17.5-27.5	A721034	<5.0	[redacted]	[redacted]
MW-145	12/20/2006	17.5-27.5	A750383	<5.0	[redacted]	[redacted]
MW-148	11/8/2000	15-25	280684	<5.0	[redacted]	[redacted]
MW-148	6/21/2001	15-25	296419	<5.0	[redacted]	<5.0
MW-148	7/15/2002	15-25	324017	<5.0	[redacted]	<5.0
MW-148	12/03/2003	15-25	503002461	<5.0	[redacted]	[redacted]
MW-148	12/19/2003	15-25	503046732	NA	[redacted]	NA
MW-148 DUP	12/19/2003	15-25	503046740	NA	[redacted]	NA
MW-148 DISSOLVED	12/19/2003	15-25	503046757	NA	< 10.0 [1]	NA
MW-148	12/21/2004	15-25	A685828	<5.0	[redacted]	<10
MW-148	12/6/2005	15-25	A721033	<5.0	[redacted]	<10
MW-148	12/20/2006	15-25	A750365	<5.0	[redacted]	<10
MW-148	11/8/2000	10.5-25.5	280686	<5.0	<10	[redacted]
MW-148 Dup	11/8/2000	10.5-25.5	280687	<5.0	<10	<5.0
MW-148	6/21/2001	10.5-25.5	296407	<5.0	<10	<5.0
MW-148 Dup	6/21/2001	10.5-25.5	296408	<5.0	<10	<5.0
MW-148	7/22/2002	10.5-25.5	324186	<5.0	<10	<5.0
MW-148	12/03/2003	10.5-25.5	503002479	<5.0	<10	<10
MW-148	12/21/2004	10.5-25.5	A685831	<5.0	[redacted]	[redacted]
MW-148	9/16/2005	10.5-25.5	A693389	NA	<10	[redacted]
MW-148	12/7/2005	10.5-25.5	A721010	<5.0	<10	<10
MW-148R	12/20/2006	10.5-25.5	A750348	<5.0	[redacted]	[redacted]
MW-150	11/8/2000	4-19	280688	<5.0	[redacted]	[redacted]
MW-150	6/20/2001	4-19	296390	<5.0	<10	<5.0
MW-150	7/19/2002	4-19	324159	<5.0	<10	<5.0
MW-150	12/03/2003	4-19	503002529	<5.0	<10	<10
MW-150	12/21/2004	4-19	A685827	<5.0	<10	<10
MW-150	12/7/2005	4-19	A721030	<5.0	[redacted]	<10
MW-150	12/21/2006	4-19	A750370	<5.0	[redacted]	<10
MW-152	11/8/2000	5-20	280690	<5.0	<10	[redacted]
MW-152	6/20/2001	5-20	296401	<5.0	<10	[redacted]
MW-152	7/15/2002	5-20	324016	<5.0	<10	[redacted]
MW-152	12/03/2003	5-20	503002537	<5.0	<10	<10
MW-152	12/21/2004	5-20	A685826	<5.0	[redacted]	[redacted]
MW-152	12/7/2005	5-20	A721021	<5.0	<10	<10
MW-152	12/20/2006	5-20	A750364	<5.0	[redacted]	[redacted]
MW-153	11/8/2000	4.5-19.5	280691	<5.0	<10	[redacted]
MW-153	6/21/2001	4.5-19.5	296404	<5.0	<10	<5.0
MW-153 Dup.	6/21/2001	4.5-19.5	296405	<5.0	<10	<5.0
MW-153	7/22/2002	4.5-19.5	324185	<5.0	<10	<5.0
MW-153	12/03/2003	4.5-19.5	503002545	<5.0	<10	<10
MW-153RDUP	12/03/2003	4.5-19.5	503002552	<5.0	<10	<10
MW-153	12/23/2004	4.5-19.5	A685835	<5.0	[redacted]	[redacted]
MW-153	12/7/2005	4.5-19.5	A721018	<5.0	<10	<10
MW-153 Dup.	12/7/2005	4.5-19.5	A721019	<5.0	<10	<10
MW-153	12/20/2006	4.5-19.5	A750359	<5.0	<10	<10
MW-153 Dup	12/20/2006	4.5-19.5	A750360	<5.0	<10	<10
MW-154	11/8/2000	5-20	280692	<5.0	<10	<5.0
MW-154	6/21/2001	5-20	296410	<5.0	<10	<5.0
MW-154	7/22/2002	5-20	324191	<5.0	<10	<5.0
MW-154	12/03/2003	5-20	503002560	<5.0	<10	<10
MW-154	12/22/2004	5-20	A685834	<5.0	[redacted]	[redacted]
MW-154	12/6/2005	5-20	A721013	<5.0	[redacted]	[redacted]
MW-154	12/20/2006	5-20	A750355	<5.0	<10	<10
[redacted]						
Tier II Residential Cleanup Goals - Groundwater [2]				5.0	100	15 [3]
[redacted]						
Tier II Non-Residential Cleanup Goals - Groundwater [2]				51.1	511	15 [3]
[redacted]						

Samples analyzed using EPA Method Series 6000/7000
ug/L = micrograms per liter NA = Not Applicable

[2] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[3] IDEM VRP Interoffice Memo dated on January 25, 1999

[1] Hexavalent Chromium analytical results were less than 50 µg/L in these three groundwater samples

Table 5
East Off-Site Bioremediation Field Parameters and Select Groundwater Analytical Results
Former General Motors Corporation
Allison Gas Turbine, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	pH	ORP (mV)	DO (mg/L)	TOC (mg/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
IW-1	7/16/2004	7.58	287	1.91	<1	140	1,100	<1.0
	8/16/2004	7.36	34	0.26	21	87	900	<1.0
	10/18/2004	7.38	139	1.81	<1.0	330	1,500	<1.0
	11/19/2004	6.09	126	0.17	2,600	1,700	640	2.2
	12/21/2004	6.54	96	0.26	270	3,600	51	2.2
	1/24/2005	6.36	-112	1.39	340	1,700	32	1.7
	3/15/2005	6.75	NA	1.68	18	2,700	11	<1.0
	4/25/2005	7.91	-148.2	0.19	NA	NA	NA	NA
	6/14/2005	6.71	40	0.71	60	2,400	29	5.5
	9/23/2005	6.70	-98.9	0.99	4.6	1,400	59	350
	12/7/2005	7.01	-86	0.81	2.7	140	50	620
	3/15/2006	7.65	22	1.20	1.7	380	100	25
	6/15/2006	7.08	-126	2.82	1.6	430	120	83
	9/26/2006	7.01	-46.1	0.49	2.1	230	200	61
	11/21/2006	5.71	-36	5.96	2,700	620	26	100
	12/21/2006	5.88	-49.2	3.25	950	<10	<10	170
IW-2	7/16/2004	7.37	357	2.67	<1	44	170	<1.0
	8/16/2004	7.42	105	0.77	11	46	210	<1.0
	10/18/2004	7.34	286	2.45	<1.0	96	290	<1.0
	11/19/2004	7.09	138	0.25	6.3	550	150	2.5
	12/21/2004	7.20	118	1.05	<1.0	310	230	1.1
	1/24/2005	7.09	1.8	1.50	<1.0	240	190	1.7
	3/15/2005	7.14	NA	3.93	NA	280	130	21
	4/25/2005	7.98	100.2	3.73	NA	NA	NA	NA
	6/14/2005	7.38	104	4.20	NA	130	160	<1.0
	9/23/2005	7.09	193.8	3.29	NA	37	130	<1.0
	12/7/2005	7.24	124	3.84	NA	51	190	<1.0
	3/15/2006	7.72	85	3.32	NA	54	180	<1.0
	6/13/2006	7.16	145	8.64	NA	18	110	<1.0
	9/26/2006	7.43	53.2	3.47	NA	32	110	<1.0
	11/21/2006	7.21	-78	0.18	3.9	89	83	12
	12/21/2006	7.08	-96	0.33	1.1	41	100	<10
MW-163	7/16/2004	7.55	294	1.67	<1	250	1,300	<1.0
	8/16/2004	7.54	130	0.81	7.2	240	790	<1.0
	10/18/2004	7.29	223	4.22	<1.0	530	1,600	<1.0
	11/19/2004	6.64	120	0.33	220	1,300	700	<1.0
	12/21/2004	7.31	124	1.50	<1.0	620	470	<1.0
	1/24/2005	7.42	-25.9	2.00	9.9	380	360	<1.0
	3/15/2005	7.20	NA	4.34	NA	650	400	<1.0
	4/25/2005	8.25	10.1	4.37	NA	NA	NA	NA
	6/14/2005	7.14	78	3.75	NA	430	430	<1.0
	9/23/2005	6.90	108.2	0.50	NA	1,200	640	54
	12/7/2005	7.22	-38	4.28	NA	830	520	220
	3/15/2006	7.96	6	2.94	NA	270	410	96
	6/15/2006	7.32	-23	4.02	NA	220	440	52
	9/26/2006	7.20	209.9	1.35	NA	120	450	20
	11/21/2006	6.97	-101	3.81	170	1,200	58	42
	12/21/2006	7.00	-60	3.45	3.5	91	28	13
Risk-Based Groundwater Concentrations*					NA	104,000	1,800	198

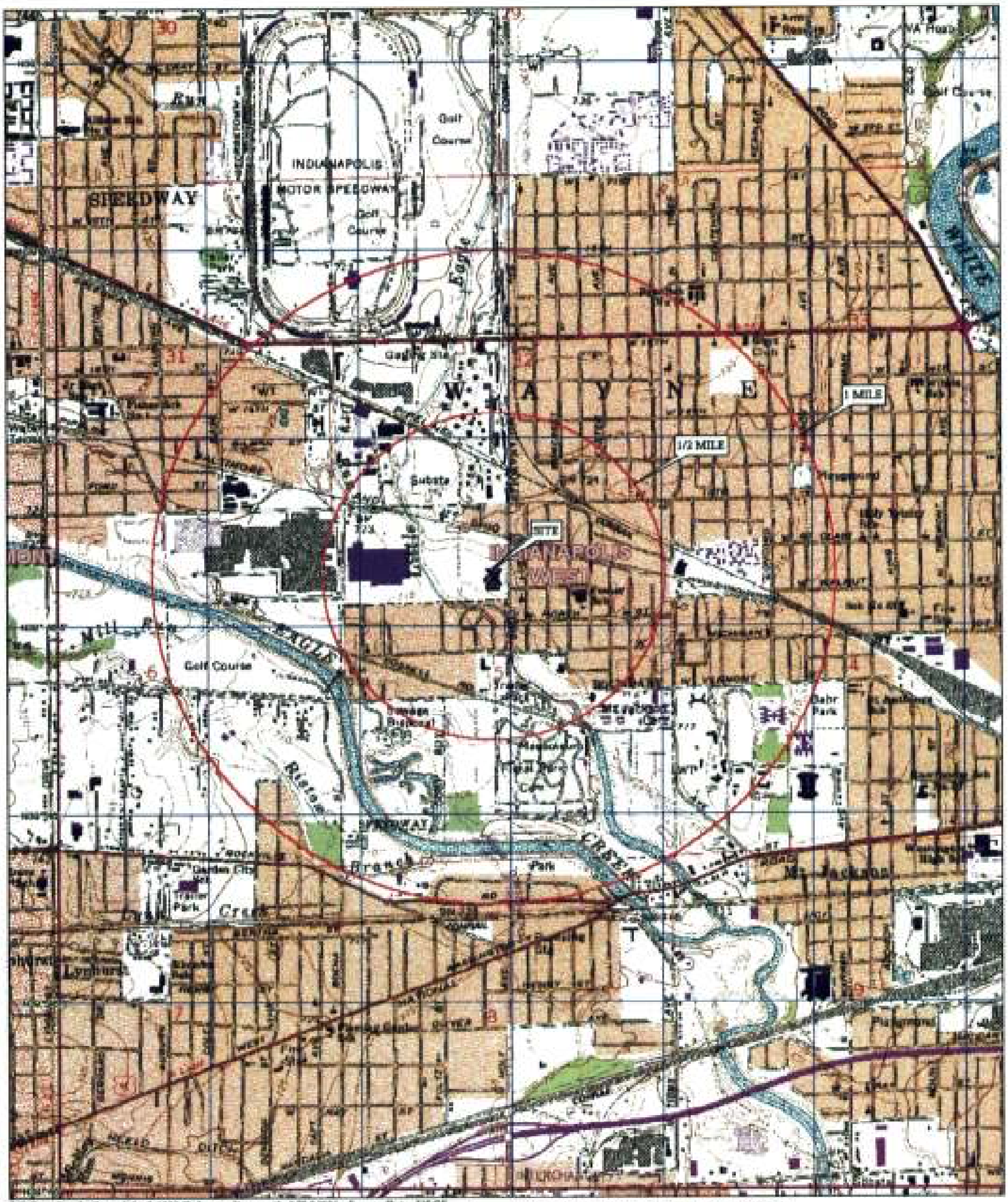
See last page for footnotes

Table 5
East Off-Site Bioremediation Field Parameters and Select Groundwater Analytical Results
Former General Motors Corporation
Allison Gas Turbine, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	pH	ORP (mV)	DO (mg/L)	TOC (mg/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-173	7/16/2004	7.30	286	1.03	<1	180	300	<1.0
	8/16/2004	7.37	340	0.47	8.7	120	260	<1.0
	10/18/2004	7.30	291	1.40	1.7	120	340	<1.0
	11/19/2004	7.26	161	1.21	37	150	330	<1.0
	12/21/2004	7.31	262	2.59	<1.0	260	430	<1.0
	1/24/2005	7.06	-15.4	2.72	<1.0	190	290	<1.0
	3/15/2005	7.20	NA	4.63	NA	110	290	<1.0
	4/25/2005	NA	128.2	3.47	NA	NA	NA	NA
	6/14/2005	7.21	104	5.07	NA	57	320	<1.0
	9/23/2005	7.05	207.7	3.21	NA	36	230	<1.0
	12/7/2005	7.37	102	6.48	NA	29	170	<1.0
	3/15/2006	7.86	64	4.41	NA	55	240	<1.0
	6/15/2006	7.23	28	3.20	NA	36	290	<1.0
	9/26/2006	7.15	293.3	2.18	NA	30	210	<1.0
	11/21/2006	7.35	0.51	2.32	<1.0	26	220	<1.0
	12/21/2006	7.12	2.0	1.55	1.0	39	270	<10
MW-156	7/16/2004	7.26	296	0.59	<1	36	230	<1.0
	8/16/2004	7.33	351	0.22	9.1	37	230	<1.0
	10/18/2004	7.26	270	6.66	<1.0	<1.0	13	<1.0
	11/19/2004	7.30	238	0.85	2.9	52	260	<1.0
	12/21/2004	7.38	253	1.70	1.5	54	250	<1.0
	1/24/2005	7.25	25.9	2.42	<1.0	35	130	<1.0
	3/16/2005	7.12	NA	1.96	NA	53	230	<1.0
	6/14/2005	7.42	106	7.78	NA	3.7	29	<1.0
	9/23/2005	6.96	139.8	1.30	NA	50	190	<1.0
	12/7/2005	7.35	72	3.63	NA	41	160	<1.0
	3/15/2006	8.23	111	4.41	NA	<1.0	4.3	<1.0
	6/14/2006	7.15	40	2.46	NA	36	160	<1.0
	9/27/2006	7.37	91.1	2.57	NA	46	240	<1.0
	11/21/2006	7.41	247	3.39	1.0	11	100	<1.0
	12/21/2006	7.16	31.1	1.41	1.3	55	240	<10
MW-151	7/16/2004	7.16	334	0.96	<1	3.1	5.1	<1.0
	8/16/2004	7.26	360	0.40	8.2	2.6	5.4	<1.0
	10/18/2004	7.11	236	0.26	<1.0	3.1	5.4	<1.0
	11/19/2004	7.10	254	3.02	13	3.5	4.7	<1.0
	12/21/2004	7.14	262	3.28	62	4.1	6.4	<1.0
	1/24/2005	7.13	50.6	4.00	<1.0	3.3	5.0	<1.0
	3/16/2005	7.10	NA	4.26	NA	3.6	5.3	<1.0
	6/14/2005	7.14	112	0.89	NA	2.8	3.6	<1.0
	9/23/2005	6.84	118	1.27	NA	3.23	4.57	<1.0
	12/7/2005	7.11	60	2.41	NA	4.6	4.8	<1.0
	3/15/2006	7.71	142	2.68	NA	3.4	4.8	<1.0
	6/14/2006	7.12	76	1.85	NA	2.6	4.6	<1.0
	9/27/2006	7.02	117.2	2.32	NA	3.6	6.6	<1.0
	11/21/2006	7.27	266	4.26	<1.0	3.5	7.4	<1.0
	12/21/2006	6.97	36.3	3.70	<1.0	3.5	6.5	<1.0
Risk-Based Groundwater Concentrations*					NA	104,000	1,800	198

The samples collected on 7/16/2004 and 10/18/2004 are pre-injection samples.

*Based on 10^{-6} risk from vapor intrusion to indoor air.
DO = dissolved oxygen
mg/L = milligrams per liter
mV = millivolts
NA = Not Applicable
ORP = oxidation-reduction potential
TOC = total organic carbon
ug/L = micrograms per liter



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS   693 ft Scale: 1 : 24,000 Detail: 12-0 Datum: WGS84

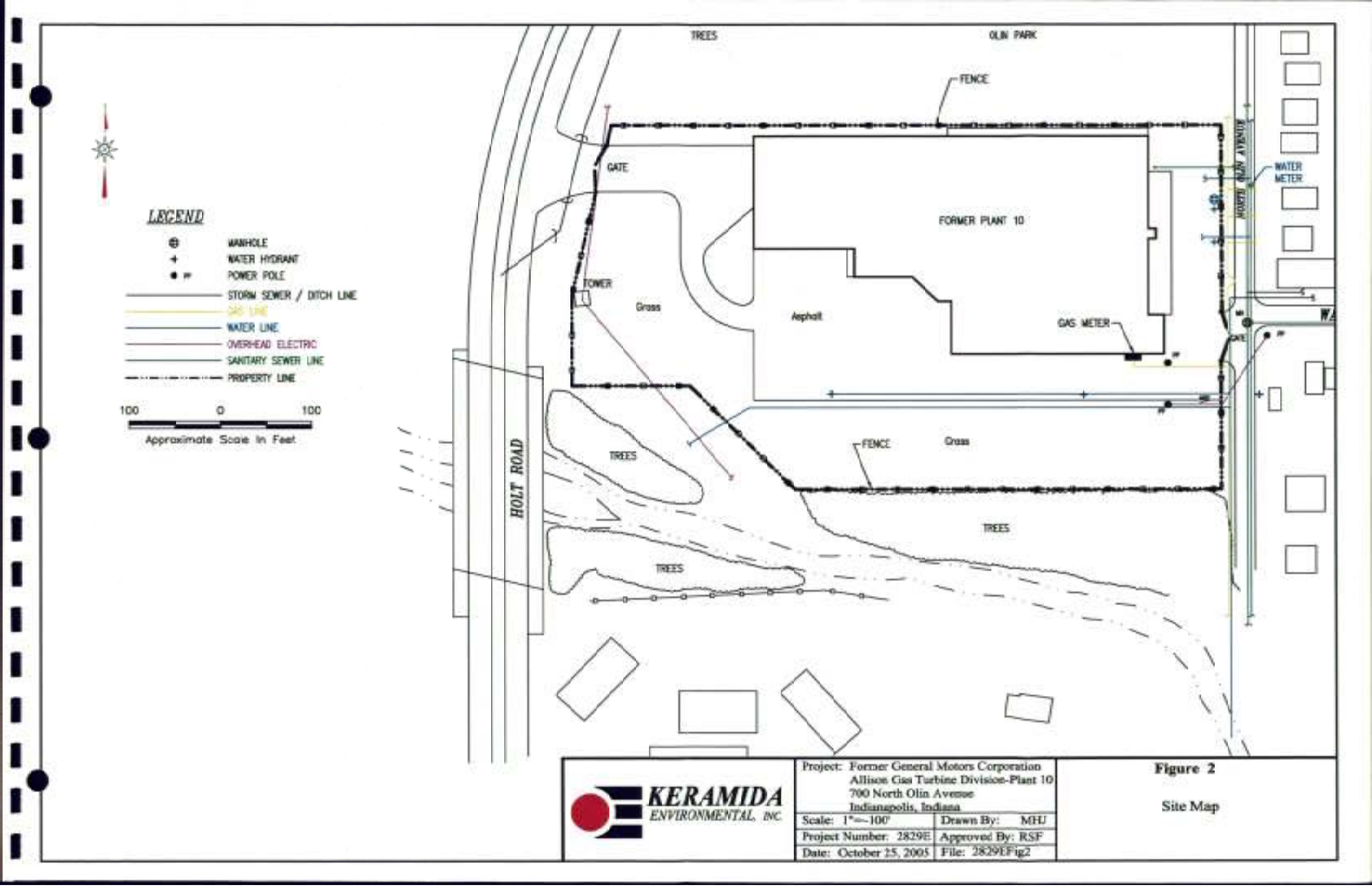
KERAMIDA Environmental, Inc.
330 North College Avenue
Indianapolis, Indiana 46202

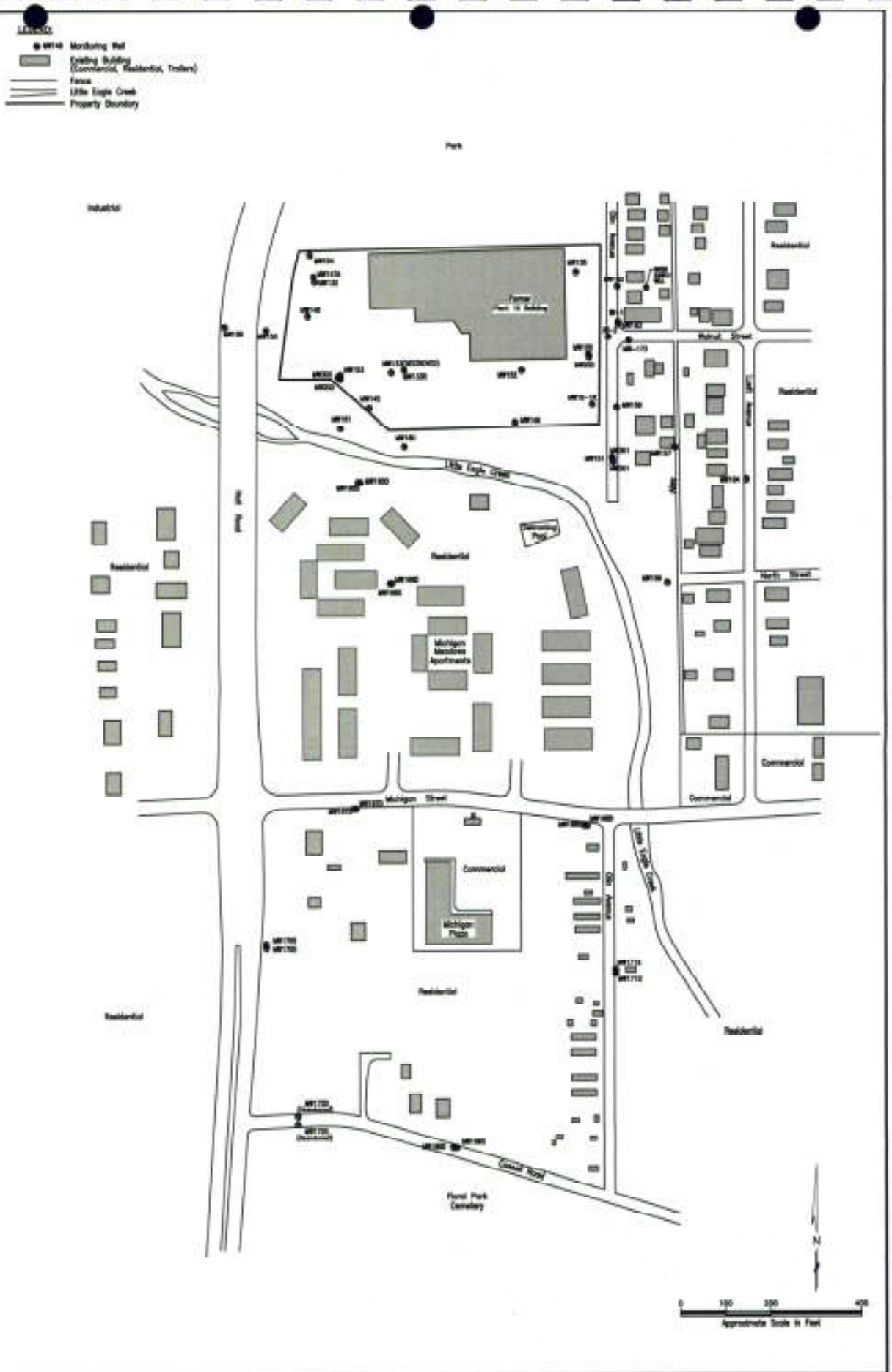
(317) 685-6600 FAX (317) 685-6610

Figure 1
Site Location Map
Former General Motors Corporation
Allison Gas Turbine Plant 10
700 North Olin Avenue
Indianapolis, IN

Prepared by :	Becky Cassinelli
Approved by :	Kris Buckles
Date :	9/29/2002
Project Number:	2829E

N.


LEGEND
MANHOLE
WATER HYDRANT
POWER POLE
STORM SEWER / DITCH LINE
GAS LINE
WATER LINE
OVERHEAD ELECTRIC
SANITARY SEWER LINE
PROPERTY LINE
100
0
100
Approximate Scale In Feet
TREES
OLIN PARK
FENCE
GATE
FORMER PLANT 10
WATER METER
TOWER
Grass
Asphalt
GAS METER
HOLT ROAD
FENCE
Grass
TREES
TREES
TREES
KERAMIDA
ENVIRONMENTAL, INC.
Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana
Scale: 1"=100'
Drawn By: MHJ
Project Number: 2829E
Approved By: RSF
Date: October 25, 2005
File: 2829EFig2
Figure 2
Site Map

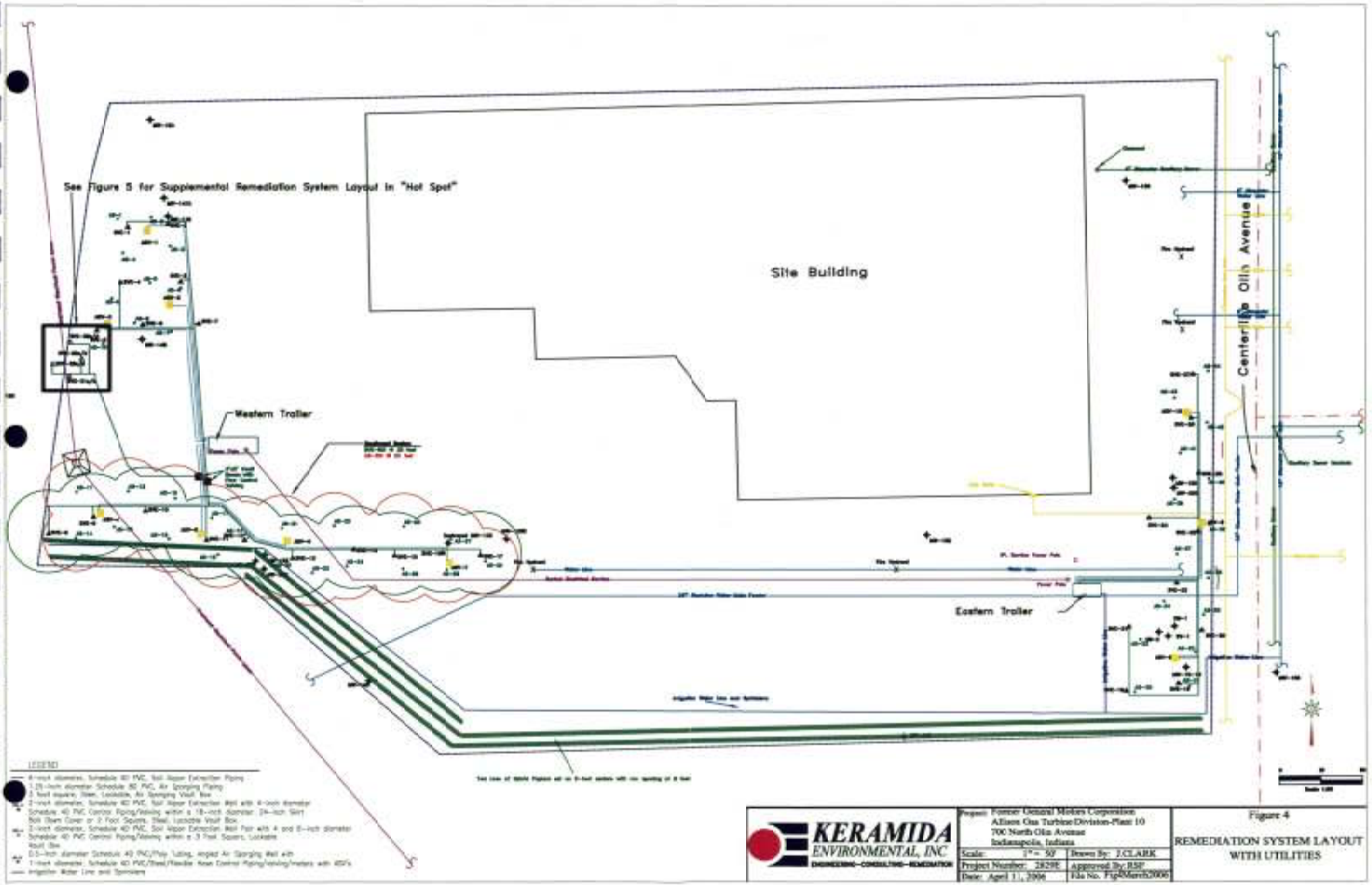


KERAMIDA ENVIRONMENTAL, INC.

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'	Drawn By: J.CLARK
Project Number: 2825E	Approved By: RSF
Date: October 25, 2005	File No. 2825EFig3

Figure 3

Expanded Site Map

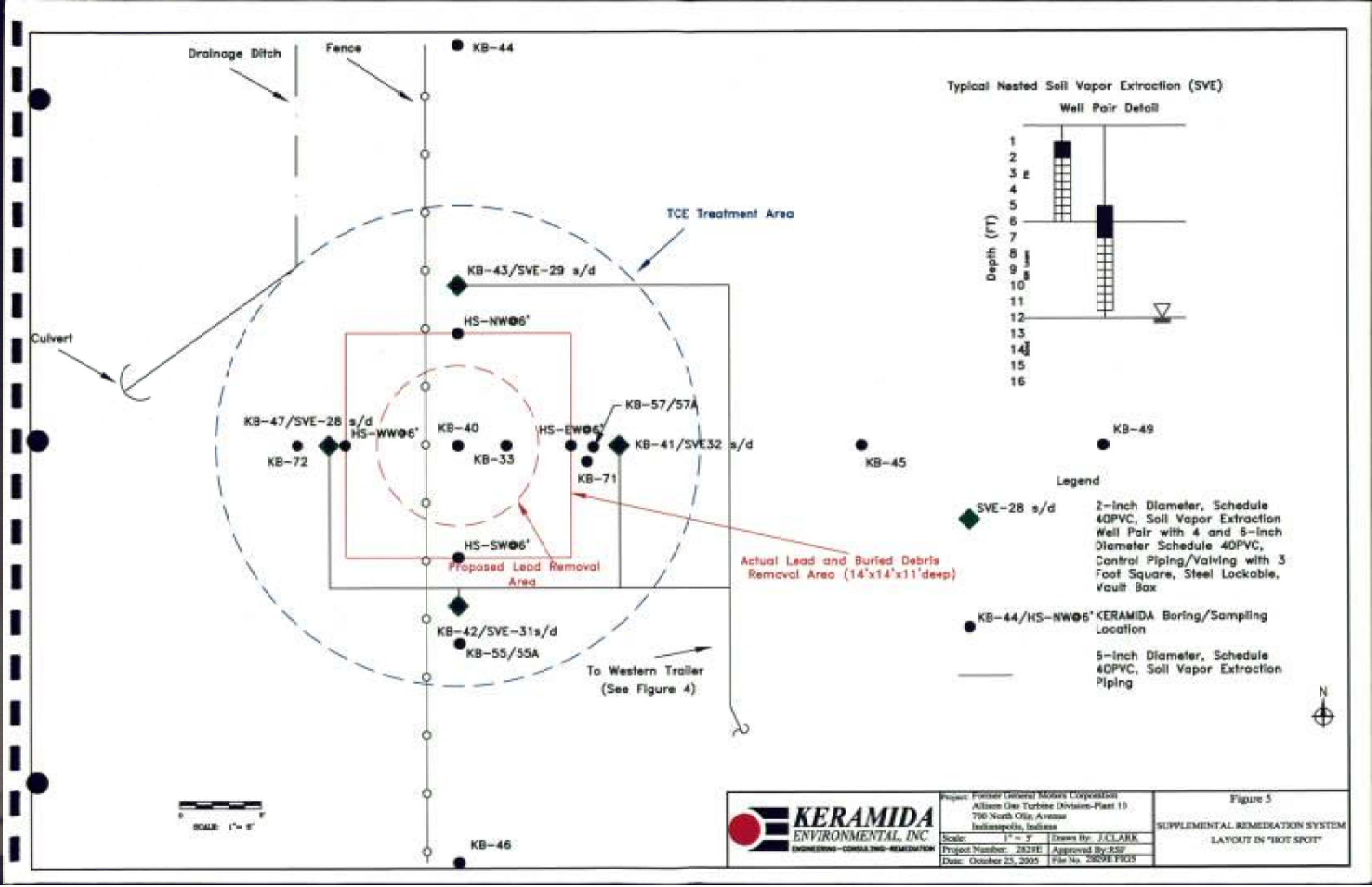


KERAMIDA ENVIRONMENTAL, INC
ENGINEERING—CONSULTING—REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 50'	Drawn By: J.CLARK
Project Number: 28295	Approved By: RSF
Date: April 1, 2006	File No. Fig06March2006

Figure 4

REMEDIATION SYSTEM LAYOUT WITH UTILITIES



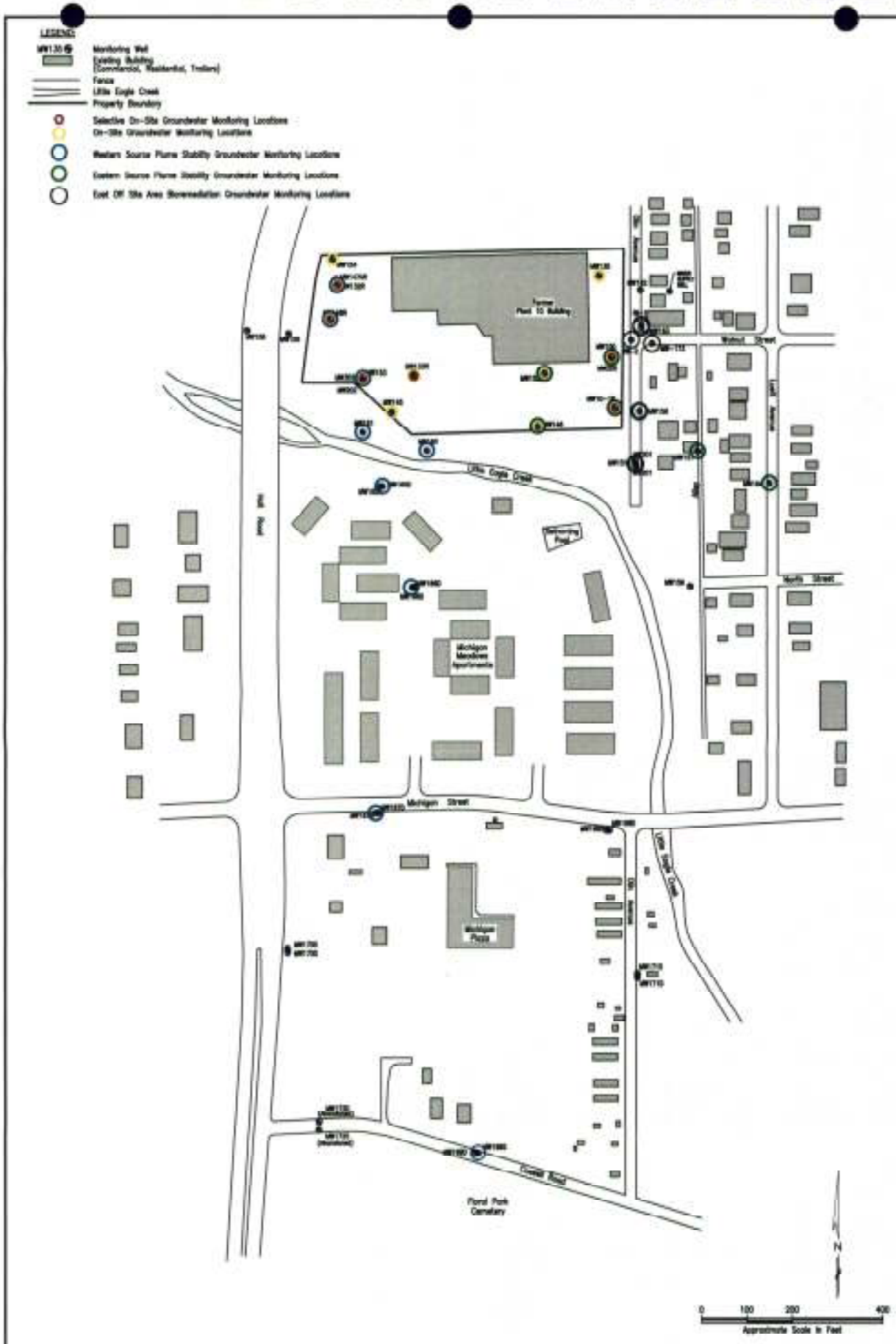
KERAMIDA ENVIRONMENTAL, INC
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Scale: 1" = 5'	Drawn By: J.CLARK
Project Number: 2829E	Approved By:RSF
Date: October 25, 2005	File No. 2829E FIG5

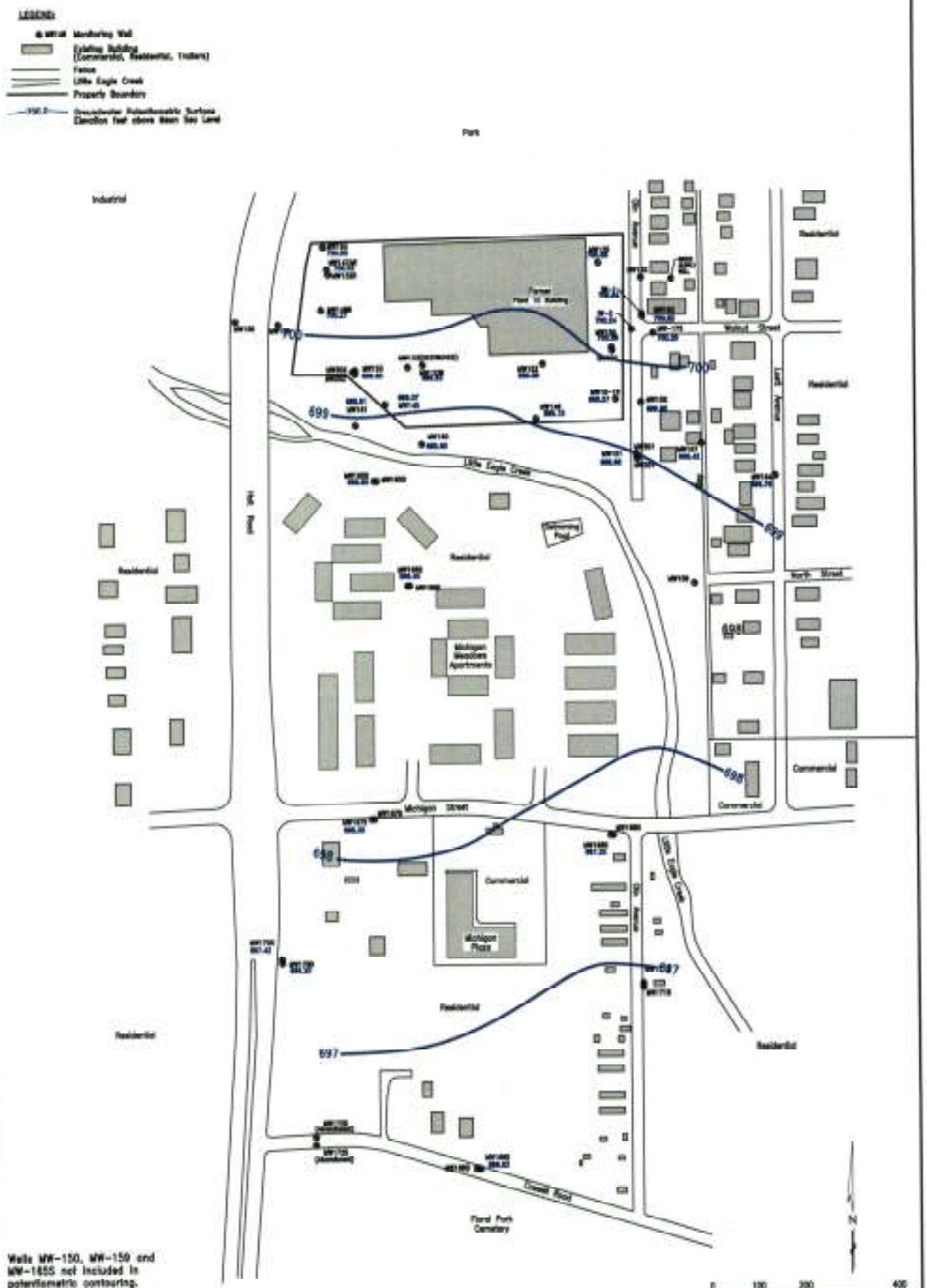
Figure 5

SUPPLEMENTAL REMEDIATION SYSTEM LAYOUT IN "HOT SPOT"



KERAMIDA ENVIRONMENTAL, INC
ENGINEERING - CONSULTING - REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	Figure 6 GROUNDWATER MONITORING PLAN
Scale: 1" = 200'	Drawn By: J.C.LARK
Project Number: 28298	Approved By: RSF
Date: October 25, 2005	File No. 28298Fig6

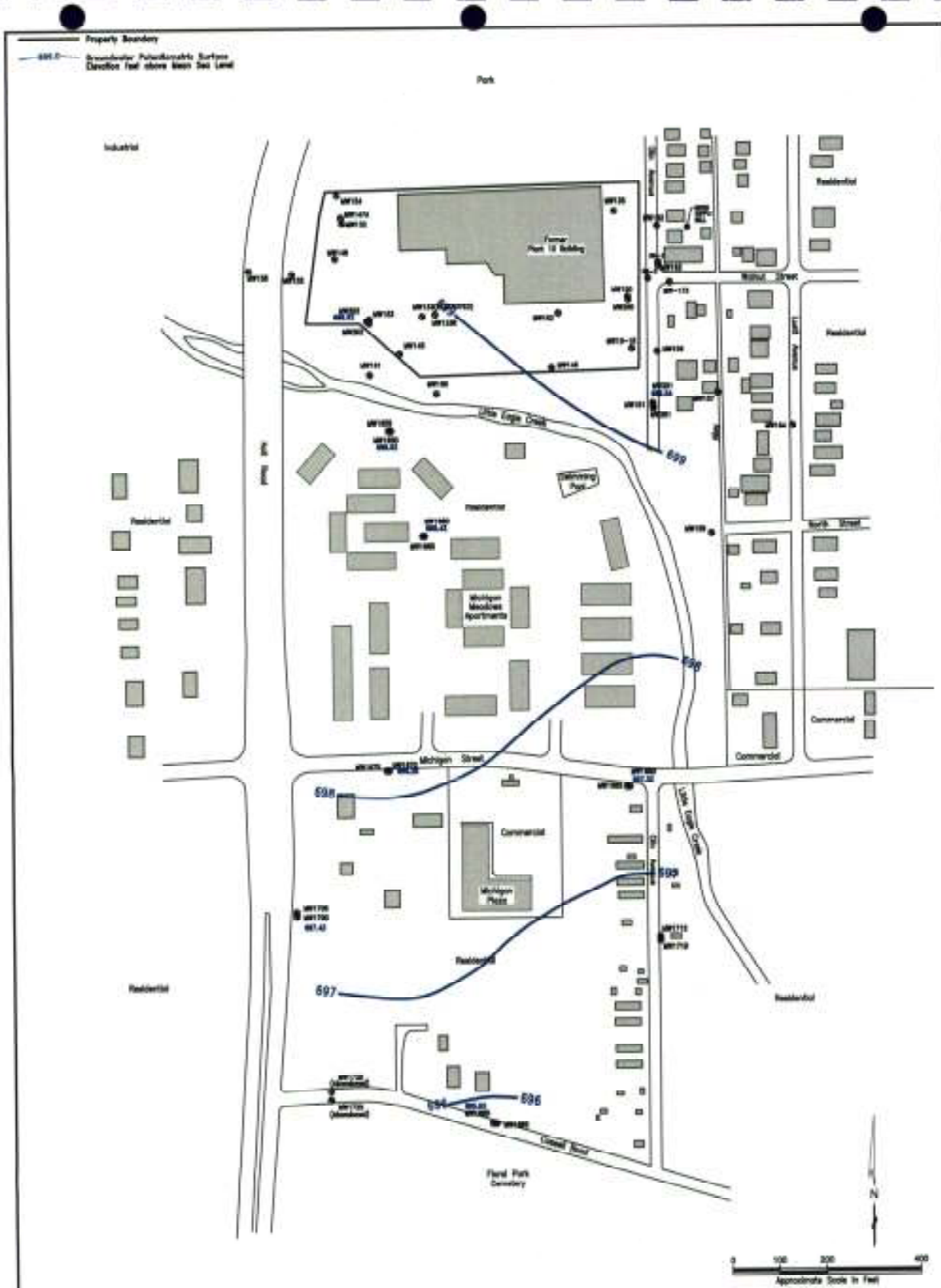


KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING - CONSULTING - REMEDIATION

Project:	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana
Scale:	1" = 200'
Drawn By:	J CLARK
Project Number:	28298-J01
Approved By:	RSP
Date:	January 19, 2007
File:	28298-001FIG7Oct06

Figure 7

Groundwater Potentiometric Surface Map-Shallow Wells, December 2006



KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING · CONSULTING · REMEDIATION

Project:	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana
Scale:	1" = 200'
Drawn By:	J.CLARK
Project Number:	2829E-001
Approved By:	RSP
Date:	January 19, 2007
File:	2829E-001FIG18Dec06

Figure 8

Groundwater Potentiometric Surface Map-Deep Wells, December 2006

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 1/4/07 Technician: W. RODMAN / J. JULIANO

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No) If yes, which vault? (ASV 4, 5, 6, or 7)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	-13	Inches of H2O
Influent Air Temperature (TI-201)	48	°F
Influent Air Flowrate (FI-201)		scfm
Ambient Air Flowrate (FI-202)		scfm
Particulate Filter Inlet Vacuum (PI-202)	22	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	28	Inches of H2O
Effluent Air Pressure (PI-204)	[illegible]	~~Inches of H2O~~ PSI
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	80	°F
Blower Current (B-201)	19	amps
Blower Hours (B-201)	36208	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	39	psi
Air Injection Flowrate ASV-4 (FI-204)	5	scfm
Air Injection Pressure ASV-5 (PI-208)	30	psi
Air Injection Flowrate ASV-5 (FI-205)	N/A	scfm
Air Injection Pressure ASV-6 (PI-209)	37	psi
Air Injection Flowrate ASV-6 (FI-206)	3	scfm
Air Injection Pressure ASV-7 (PI-210)	30	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	140	psi
Compressor Air Temperature (TI-203)	109	°F
Compressor Air Temperature on AC-201 display unit	183	°F
Compressor Load Hours AC-201 display unit	10372	hours TOT = 31922
Compressor Current (AC-201)	24	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) If yes, name: SW SVE EXHAUST
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) Lubricate weekly.
Blower Oil Changed ? (Yes/No) Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) Change every 4,000 hours.

NOTES:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 12/29/06 Technician: W. RODMAN

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes/No) — No circled
Air Compressor (AC-201) Operating ? (Yes/No) — No circled
Air Sparges Operating ? (Yes/No) — No circled   If yes, which vault? (ASV 4, 5, 6, or 7)
Heater Operating ? (Yes/No) — Yes circled
Ventilation Operating ? (Yes/No) — No circled

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	-14	Inches of H2O
Influent Air Temperature (TI-201)	45	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	24	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	30	Inches of H2O
Effluent Air Pressure (PI-204)	1	~~Inches of H2O~~ PSI
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	80	°F
Blower Current (B-201)	20	amps
Blower Hours (B-201)	36262	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	34	psi
Air Injection Flowrate ASV-4 (FI-204)	5	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	N/A	scfm
Air Injection Pressure ASV-6 (PI-209)	39	psi
Air Injection Flowrate ASV-6 (FI-206)	5	scfm
Air Injection Pressure ASV-7 (PI-210)	38	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	33	psi
Compressor Pressure (PI-205)	102	psi
Compressor Air Temperature (TI-203)	55	°F
Compressor Air Temperature on AC-201 display unit	184	°F
Compressor Load Hours AC-201 display unit	10321	hours TOT = 31917
Compressor Current (AC-201)	24	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) — No circled   If yes, name: ______
SVE Knockout Tanks Drained ? (Yes/No) — Yes circled
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) — No circled Changed ? (Yes/No) — No circled
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) — No circled Changed ? (Yes/No) — No circled   Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — No circled   Lubricate weekly.
Blower Oil Changed ? (Yes/No) — No circled   Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — No circled   Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — No circled   Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — No circled   Change every 4,000 hours.

NOTES:

Tri-State fixed AC unit on 12/21/06.) RSF
System down on high water 12/25/06.)

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 12-18-06 Technician: Harper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes) No)
Air Compressor (AC-201) Operating ? (Yes (No)
Air Sparges Operating ? (Yes No)
Heater Operating ? (Yes No)
Ventilation Operating ? (Yes No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	14	Inches of H2O
Influent Air Temperature (TI-201)	46	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	32	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	96.5	Inches of H2O
Effluent Air Pressure (PI-204)	0	~~Inches of H2O~~ PSI
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	80	°F
Blower Current (B-201)	19.5	amps
Blower Hours (B-201)	36112	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	36	psi
Air Injection Flowrate ASV-4 (FI-204)	5	scfm
Air Injection Pressure ASV-5 (PI-208)	33	psi
Air Injection Flowrate ASV-5 (FI-205)	N/A	scfm
Air Injection Pressure ASV-6 (PI-209)	38	psi
Air Injection Flowrate ASV-6 (FI-206)	0	scfm
Air Injection Pressure ASV-7 (PI-210)	31	psi
Air Injection Flowrate ASV-7 (FI-207)	17	scfm
Regulator Pressure (PI-206)	34	psi
Compressor Pressure (PI-205)	105	psi
Compressor Air Temperature (TI-203)	82	°F
Compressor Air Temperature on AC-201 display unit	186	°F
Compressor Load Hours AC-201 display unit	10297	hours Total 31828
Compressor Current (AC-201)	24	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No)
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower Lubricated ? (Yes/No)
Blower Oil Changed ? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed? (Yes/No)
Compressor Filter Changed ? (Yes/No)
Compressor Oil Changed ? (Yes/No)

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Lubricate weekly.
Change every 1,000 hours.
Changing frequency based on indicators on filter housings.
Change every 1,500 hours.
Change every 4,000 hours.

NOTES: TIGHTENED BELTS
PARTICULATE FILTER GAUGES BAD
CHANGED FILTER / OLD FILTER SHREDDED

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 12/5/06 Technician: A. HARPER / S. Conley

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No) If yes, which vault? (ASV 4, 5, 6, or 7)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	15.5	Inches of H2O
Influent Air Temperature (TI-201)	30	°F
Influent Air Flowrate (FI-201)		scfm
Ambient Air Flowrate (FI-202)		scfm
Particulate Filter Inlet Vacuum (PI-202)	33.5	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	38	Inches of H2O
Effluent Air Pressure (PI-204)	1	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	60°	°F
Blower Current (B-201)	20	amps
Blower Hours (B-201)	35800	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	36.5	psi
Air Injection Flowrate ASV-4 (FI-204)	5	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	N/A	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	6	scfm
Air Injection Pressure ASV-7 (PI-210)	35	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	39	psi
Compressor Pressure (PI-205)	107	psi
Compressor Air Temperature (TI-203)	70	°F
Compressor Air Temperature on AC-201 display unit	189	°F
Compressor Load Hours AC-201 display unit	10247	hours TOTAL 31828 hr.
Compressor Current (AC-201)	24.5 / L	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) If yes, name: _____
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (FF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) Lubricate weekly.
Blower Oil Changed ? (Yes/No) Change every 1,000 hours.
Compressor In-line Air Filters (FF-202) Changed? (Yes/No) Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) Change every 4,000 hours.

NOTES: System running as designed with no problems observed.

KERAMIDA ENVIRONMENTAL, INC.
350 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 12/1/06 Technician: W. RODMAN, A. HARPER

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes / No) If yes, which vault? (ASV 4, 5, 6, or 7)
Heater Operating ? (Yes / No)
Ventilation Operating ? (Yes / No)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	-18	Inches of H2O
Influent Air Temperature (TI-201)	46	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	38	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	42	Inches of H2O
Effluent Air Pressure (PI-204)	1	~~Inches of H2O~~ PSI
Effluent Air Flowrate (FI-203)	100	scfm
Effluent Air Temperature (TI-202)	80	°F
Blower Current (B-201)	20	amps
Blower Hours (B-201)	35705	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	35	psi
Air Injection Flowrate ASV-4 (FI-204)	3	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	N/A	scfm
Air Injection Pressure ASV-6 (PI-209)	38	psi
Air Injection Flowrate ASV-6 (FI-206)	9	scfm
Air Injection Pressure ASV-7 (PI-210)	37	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	36	psi
Compressor Pressure (PI-205)	102	psi
Compressor Air Temperature (TI-203)	60	°F
Compressor Air Temperature on AC-201 display unit	186	°F
Compressor Load Hours AC-201 display unit	10220	hours TOTAL HR. 31734
Compressor Current (AC-201)	24	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes / No) If yes, name: _____
SVE Knockout Tanks Drained ? (Yes / No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes / No) Changed ? (Yes / No) Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower In-line Air Filter (PF-201) Cleaned ? (Yes / No) Changed ? (Yes / No) Lubricate weekly.
Blower Lubricated ? (Yes / No) Change every 1,000 hours.
Blower Oil Changed ? (Yes / No) Changing frequency based on indicators on filter housings.
Compressor In-line Air Filters (PF-202) Changed? (Yes / No) Change every 1,500 hours.
Compressor Filter Changed ? (Yes / No) Change every 4,000 hours.
Compressor Oil Changed ? (Yes / No)

NOTES: BREAKER CB45A WAS TRIPPED UPON ARRIVAL
CHANGED LIGHT BULB IN COMPRESSOR SIDE
RE-ATTACHED POLY TANK TARP W/ NEW BUNGEES
PUT IN VALVE @ BLOWER TO DRAIN OIL
CHANGED BLOWER INDICATOR BULB ON CONTROL PANEL

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 11/22/06 Technician: N. RODMAN

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes / No) If yes, which vault? (ASV 4, 5, 6, or 7) 6
Heater Operating ? (Yes / No)
Ventilation Operating ? (Yes / No)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	-17	Inches of H2O
Influent Air Temperature (TI-201)	520	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	37	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	41	Inches of H2O
Effluent Air Pressure (PI-204)	1	~~Inches of H2O~~ PSI
Effluent Air Flowrate (FI-203)	1020	scfm
Effluent Air Temperature (TI-202)	808	°F
Blower Current (B-201)	20	amps
Blower Hours (B-201)	356681	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	35	psi
Air Injection Flowrate ASV-4 (FI-204)	3	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	N/A	scfm
Air Injection Pressure ASV-6 (PI-209)	36	psi
Air Injection Flowrate ASV-6 (FI-206)	6	scfm
Air Injection Pressure ASV-7 (PI-210)	29	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	34	psi
Compressor Pressure (PI-205)	104	psi
Compressor Air Temperature (TI-203)	100	°F
Compressor Air Temperature on AC-201 display unit	185	°F
Compressor Load Hours AC-201 display unit	102689	hours TOT = 31733
Compressor Current (AC-201)	25	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes / No) If yes, name: _____
SVE Knockout Tanks Drained ? (Yes / No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes / No) Changed ? (Yes / No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes / No) Changed ? (Yes / No) Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes / No) Lubricate weekly.
Blower Oil Changed ? (Yes / No) Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes / No) Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes / No) CLEANED Change every 1,500 hours.
Compressor Oil Changed ? (Yes / No) Change every 4,000 hours.

NOTES:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 11/17/06 Technician: W. RODMAN A. HARPER

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
If yes, which vault? (ASV 4, 5, 6, or 7)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	-20	Inches of H2O
Influent Air Temperature (TI-201)	47	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	39	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	45	Inches of H2O
Effluent Air Pressure (PI-204)	1	~~Inches of H2O~~ PSI
Effluent Air Flowrate (FI-203)	1,000	scfm
Effluent Air Temperature (TI-202)	78	°F
Blower Current (B-201)	20	amps
Blower Hours (B-201)	36257	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	38	psi
Air Injection Flowrate ASV-4 (FI-204)	3	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	N/A	scfm GAUGE BROKEN
Air Injection Pressure ASV-6 (PI-209)	24	psi
Air Injection Flowrate ASV-6 (FI-206)	5	scfm
Air Injection Pressure ASV-7 (PI-210)	37	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	39	psi
Compressor Pressure (PI-205)	102	psi
Compressor Air Temperature (TI-203)	78	°F
Compressor Air Temperature on AC-201 display unit	189	°F
Compressor Load Hours AC-201 display unit	10231	hours TOT - 31618
Compressor Current (AC-201)	24	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) If yes, name: SW SVE for VOC & VC
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower Lubricated ? (Yes/No)
Blower Oil Changed ? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed? (Yes/No)
Compressor Filter Changed ? (Yes/No)
Compressor Oil Changed ? (Yes/No)

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Lubricate weekly.
Change every 1,000 hours.
Changing frequency based on indicators on filter housings.
Change every 1,500 hours.
Change every 4,000 hours.

NOTES:

BLOWER D.N. - HIGH WATER
COMPRESSOR NOT OPERATING - BACK PRESSURE
SMALL HEATER OFF - BLEW GFCI
OPENED AMBIENT AIR VALVE INFLUENT VAC NOW -17
↳ TO HELP W/ HIGH WATER

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 11/7/06 Technician: W. RODMAN

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes) No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, (6,) or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	18	Inches of H2O
Influent Air Temperature (TI-201)	72	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	40	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	40	Inches of H2O
Effluent Air Pressure (PI-204)	1	~~Inches of H2O~~ PSI
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	85	°F
Blower Current (B-201)	20	amps
Blower Hours (B-201)	35351	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	38	psi
Air Injection Flowrate ASV-4 (FI-204)	3	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	8	scfm
Air Injection Pressure ASV-6 (PI-209)	34	psi
Air Injection Flowrate ASV-6 (FI-206)	5	scfm
Air Injection Pressure ASV-7 (PI-210)	35	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	35	psi
Compressor Pressure (PI-205)	106	psi
Compressor Air Temperature (TI-203)	99	°F
Compressor Air Temperature on AC-201 display unit	185	°F
Compressor Load Hours AC-201 display unit	101162	hours ~~LOATOT~~ = 31385
Compressor Current (AC-201)	25	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No)
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower Lubricated ? (Yes/No)
Blower Oil Changed ? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed? (Yes/No)
Compressor Filter Changed ? (Yes/No)
Compressor Oil Changed ? (Yes/No)

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Lubricate weekly.
Change every 1,000 hours.
Changing frequency based on indicators on filter housings.
Change every 1,500 hours.
Change every 4,000 hours.

NOTES:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 10/31/06 Technician: W. Rodman

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / **No**)
Air Compressor (AC-201) Operating ? (Yes / **No**)
Air Sparges Operating ? (Yes/**No**) If yes, which vault? (ASV 4, 5, 6, or 7)
Heater Operating ? (**Yes**/No)
Ventilation Operating ? (**Yes**/No)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	17.9	Inches of H2O
Influent Air Temperature (TI-201)	51	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	31	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	40	Inches of H2O
Effluent Air Pressure (PI-204)	0	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	79	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	35185	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	34	psi
Air Injection Flowrate ASV-4 (FI-204)	7	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	11	scfm
Air Injection Pressure ASV-6 (PI-209)	39	psi
Air Injection Flowrate ASV-6 (FI-206)	9	scfm
Air Injection Pressure ASV-7 (PI-210)	34	psi
Air Injection Flowrate ASV-7 (FI-207)	14	scfm
Regulator Pressure (PI-206)	32	psi
Compressor Pressure (PI-205)	102	psi
Compressor Air Temperature (TI-203)	79	°F
Compressor Air Temperature on AC-201 display unit	190	°F
Compressor Load Hours AC-201 display unit	440	hours LOAD = 10107 TOT = 31218
Compressor Current (AC-201)	25	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/**No**) If yes, name: ____
SVE Knockout Tanks Drained ? (Yes/**No**)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/**No**) Changed ? (Yes/**No**)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/**No**) Changed ? (Yes/**No**) Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/**No**) Lubricate weekly.
Blower Oil Changed ? (Yes/**No**) Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/**No**) Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/**No**) Change every 1,500 hours.
Compressor Oil Changed ? (Yes/**No**) Change every 4,000 hours.

NOTES:

System restarted today - Shutdown prior to rain event last week. (ASF)

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 10/23/06 Technician: R. Fedorchak

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (**Yes** / No) Restarted
Air Compressor (AC-201) Operating ? (**Yes** / No)
Air Sparges Operating ? (**Yes** / No) If yes, which vault? (ASV 4, 5, 6, or **7**)
Heater Operating ? (**Yes** / No) Reset
Ventilation Operating ? (Yes / **No**) off

OPERATIONAL PARAMETERS

SVE System

Parameter	Value	Units
Influent Vacuum (PI-201)	16.5	Inches of H2O
Influent Air Temperature (TI-201)	48	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	30	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	38	Inches of H2O
Effluent Air Pressure (PI-204)	0	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	76	°F
Blower Current (B-201)	20	amps
Blower Hours (B-201)	35135	hours

Air Sparging System

Parameter	Value	Units
Air Injection Pressure ASV-4 (PI-207)	36	psi
Air Injection Flowrate ASV-4 (FI-204)	5	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	10	scfm
Air Injection Pressure ASV-6 (PI-209)	30	psi
Air Injection Flowrate ASV-6 (FI-206)	38	scfm
Air Injection Pressure ASV-7 (PI-210)	34	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	38	psi
Compressor Pressure (PI-205)	107	psi
Compressor Air Temperature (TI-203)	58	°F
Compressor Air Temperature on AC-201 display unit	193	°F
Compressor Load Hours AC-201 display unit	10090	hours 31164 total
Compressor Current (AC-201)	26 load / 15 idle	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (**Yes** / No) If yes, name: SWEffluent
SVE Knockout Tanks Drained ? (**Yes** / No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes / **No**) Changed ? (Yes / **No**)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes / **No**) Changed ? (Yes / **No**) Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes / **No**) Lubricate weekly.
Blower Oil Changed ? (Yes / **No**) Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes / **No**) Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes / **No**) Change every 1,500 hours.
Compressor Oil Changed ? (Yes / **No**) Change every 4,000 hours.

NOTES:
- Off on high water since 10/19/06, 1st [illegible]
- Balanced SVE to 10" H2O : AS ponds [illegible] (ASV-7 [illegible]) [illegible]
  ↳ (SVE 15.1 [illegible])

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 10/16/06 Technician: R. Fedorchuk

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? **(Yes / No)**
Air Compressor (AC-201) Operating ? **(Yes / No)**
Air Sparges Operating ? **(Yes/No)**
Heater Operating ? **(Yes/No)**
Ventilation Operating ? **(Yes/No)**

If yes, which vault? (ASV 4, 5, (6,) or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	16.5	Inches of H2O
Influent Air Temperature (TI-201)	54	°F
Influent Air Flowrate (FI-201)	~	scfm
Ambient Air Flowrate (FI-202)	~	scfm
Particulate Filter Inlet Vacuum (PI-202)	30	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	38	Inches of H2O
Effluent Air Pressure (PI-204)	0	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	94	°F
Blower Current (B-201)	18	amps
Blower Hours (B-201)	35117	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	33	psi
Air Injection Flowrate ASV-4 (FI-204)	66	scfm
Air Injection Pressure ASV-5 (PI-208)	35	psi
Air Injection Flowrate ASV-5 (FI-205)	14	scfm
Air Injection Pressure ASV-6 (PI-209)	30	psi
Air Injection Flowrate ASV-6 (FI-206)	15	scfm
Air Injection Pressure ASV-7 (PI-210)	26	psi
Air Injection Flowrate ASV-7 (FI-207)	15	scfm
Regulator Pressure (PI-206)	38	psi
Compressor Pressure (PI-205)	109	psi
Compressor Air Temperature (TI-203)	103	°F
Compressor Air Temperature on AC-201 display unit	187	°F
Compressor Load Hours AC-201 display unit	10090	hours 31660 total
Compressor Current (AC-201)	8.4 load	amps
	1.4 idle	

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? **(Yes/No)** If yes, name: _____
SVE Knockout Tanks Drained ? **(Yes/No)**
Blower Dilution Air Filter (FS-201) Cleaned ? **(Yes/No)** Changed ? **(Yes/No)**
Blower In-line Air Filter (PF-201) Cleaned ? **(Yes/No)** Changed ? **(Yes/No)** Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? **(Yes/No)** Lubricate weekly.
Blower Oil Changed ? **(Yes/No)** Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? **(Yes/No)** Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? **(Yes/No)** Change every 1,500 hours.
Compressor Oil Changed ? **(Yes/No)** Change every 4,000 hours.

NOTES:

- Flowmeter @ ASV-5 (shutter) changed out w/ replacement from ASV-3 (shutter) (not used)
- Installed new spring switch pins in both the SW & NW AC units.
- " " " " " " in East AC unit.

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 10/9/06 Technician: J. Cowsky

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	16	Inches of H2O
Influent Air Temperature (TI-201)	70	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (PI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	34	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	37	Inches of H2O
Effluent Air Pressure (PI-204)	1	~~inches of H2O~~ psi
Effluent Air Flowrate (FI-203)	1,100	scfm
Effluent Air Temperature (TI-202)	100	°F
Blower Current (B-201)	19.5	amps
Blower Hours (B-201)	34956	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	32	psi
Air Injection Flowrate ASV-4 (FI-204)	<5	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	—	scfm broken gage
Air Injection Pressure ASV-6 (PI-209)	27	psi
Air Injection Flowrate ASV-6 (FI-206)	10	scfm
Air Injection Pressure ASV-7 (PI-210)	28	psi
Air Injection Flowrate ASV-7 (FI-207)	14	scfm
Regulator Pressure (PI-206)	35	psi
Compressor Pressure (PI-205)	106	psi
Compressor Air Temperature (TI-203)	98	°F
Compressor Air Temperature on AC-201 display unit	190	°F
Compressor Load Hours AC-201 display unit	10030	hours Total = 31006
Compressor Current (AC-201)	16.5	amps @ idle

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) If yes, name: _____
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No) Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) Lubricate weekly.
Blower Lubricated ? (Yes/No) Change every 1,000 hours.
Blower Oil Changed ? (Yes/No) Changing frequency based on indicators on filter housings.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) Change every 1,500 hours.
Compressor Filter Changed ? (Yes/No) Change every 4,000 hours.
Compressor Oil Changed ? (Yes/No)

NOTES: System Power shut down for unknown reason & returned ~5 seconds later. ?

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 10/3/06 Technician: N. RODMAN

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes) No)
Air Compressor (AC-201) Operating ? (Yes) No)
Air Sparges Operating ? (Yes) No)
Heater Operating ? (Yes) No)
Ventilation Operating ? (Yes) No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	16	Inches of H2O
Influent Air Temperature (TI-201)	74	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	35	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	37	Inches of H2O
Effluent Air Pressure (PI-204)	1	Inches of H2O PS1
Effluent Air Flowrate (FI-203)	1,000	scfm
Effluent Air Temperature (TI-202)	91	°F
Blower Current (B-201)	19	amps
Blower Hours (B-201)	34913	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	33	psi
Air Injection Flowrate ASV-4 (FI-204)	0	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	—	scfm BROKEN GAUGE
Air Injection Pressure ASV-6 (PI-209)	27	psi
Air Injection Flowrate ASV-6 (FI-206)	10	scfm
Air Injection Pressure ASV-7 (PI-210)	29	psi
Air Injection Flowrate ASV-7 (FI-207)	14	scfm
Regulator Pressure (PI-206)	33	psi
Compressor Pressure (PI-205)	95	psi
Compressor Air Temperature (TI-203)	~~197~~ 198	°F
Compressor Air Temperature on AC-201 display unit	198	°F
Compressor Load Hours AC-201 display unit	9764	hours TOT= 30862
Compressor Current (AC-201)	24	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes) No)
SVE Knockout Tanks Drained ? (Yes) No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes) No) Changed ? (Yes) No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes) No) Changed ? (Yes) No)
Blower Lubricated ? (Yes) No)
Blower Oil Changed ? (Yes) No)
Compressor In-line Air Filters (PF-202) Changed? (Yes) No)
Compressor Filter Changed ? (Yes) No)
Compressor Oil Changed ? (Yes) No)

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Lubricate weekly.
Change every 1,000 hours.
Changing frequency based on indicators on filter housings.
Change every 1,500 hours.
Change every 4,000 hours.

NOTES:

KERAMIDA ENVIRONMENTAL, INC.
320 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

QUARTERLY OPERATIONAL LOG FOR SW SYSTEM
(ASV-8 is Operational)
Genuine Parts Groundwater Remediation System
KERAMIDA Project #3829E

Date: 1/4/07 Technician: W. RUDMAN / J. JULIANO

Air Sparging Points (AS-13, 16, 17, 18 & 19) Pressure set @ 6 psi with an Air Flow @ 4-5 cfm

Time	MW - 103				
	Vac./Pres.("H_2O)	Headspace (ppm)	DTW (feet) (Screen @ 4.5' bgs)	DO (% or mg/L)	ORP (% or mg/L)
0 (SVE Only, ASV's Off)	-0.02	0	11.48	7.20	145
0 (w/SVE-10&13asObs.Pt., ASV's Off)	0	0	11.40	7.19	145
15	-0.01	0.1	10.06	2.06	138
30	-0.02	0.2	10.71	2.31	120
45	0	1.1	10.93	4.25	121
60	-0.02	0.2	11.13	4.81	125
90	-0.02	0.1	11.34	6.03	140
Time	SVE - 10				
	Vac./Pres.("H_2O)	Headspace (ppm)	DTW (feet) (Screen 5' bgs)	DO (% or mg/L)	ORP (% or mg/L)
0 (SVE Only, ASV's Off)	-10	NA	9.55	5.63	148
0 (as Obs. Pt., ASV's Off)	0	0	9.41	5.91	146
15	-0.01	0	8.96	1.76	121
30	-0.01	0	9.72	2.09	118
45	-0.03	0	9.52	2.98	130
60	-0.07	0	9.48	4.05	130
90	-0.06	0	9.61	5.11	141
Time	SVE - 11				
	Vac./Pres.("H_2O)	Headspace (ppm)	DTW (feet) (Screen @ 5' bgs)	DO (% or mg/L)	ORP (% or mg/L)
0 (SVE Only, ASV's Off)	-10	NA	9.76	8.81	151
0 (w/SVE-10&13asObs.Pt., ASV's Off)	-10	NA	9.71	8.63	150
15	-10	NA	8.88	4.15	99
30	-10	NA	8.96	4.26	106
45	-10	NA	9.15	6.22	121
60	-10	NA	9.42	6.96	128
90	-10	NA	9.48	8.07	143
Time	SVE - 12				
	Vac./Pres.("H_2O)	Headspace (ppm)	DTW (feet) (Screen @ 5' bgs)	DO (% or mg/L)	ORP (% or mg/L)
0 (SVE Only, ASV's Off)	-10	NA	8.94	5.50	151
0 (w/SVE-10&13asObs.Pt., ASV's Off)	-10	NA	8.91	4.09	148
15	-10	NA	7.06	4.83	121
30	-10	NA	7.11	5.71	103
45	-10	NA	8.14	7.02	91
60	-10	NA	8.50	7.12	115
90	-10	NA	9.03	7.03	126
Time	SVE - 13				
	Vac./Pres.("H_2O)	Headspace (ppm)	DTW (feet) (Screen 5' bgs)	DO (% or mg/L)	ORP (% or mg/L)
0 (SVE Only, ASV's Off)	-10	NA	6.15	7.67	138
0 (as Obs. Pt., ASV's Off)	-0.02	0	5.53	7.66	137
15	-0.06	0	4.61	4.33	95
30	-0.06	0	5.06	4.06	88
45	-0.02	0	5.16	4.19	120
60	-0.06	0	6.03	4.07	119
90	-0.06	0	6.09	5.93	133

Vapor Discharge Calculation Worksheet

Site: Former Allison Plant #10 - Groundwater Remedation System
Date: 12-18-06
Time: Southwest System with Northwest SVE Wells

Enter Air Flowrate in CFM	1000

Enter Concentrations in PPMV

Vinyl Chloride	0
Methylene Chloride	0
t-1,2 DCE	0
Chloroform	0
1,1,1 TCA	0
Carbon Tetrachloride	0
TCE	0.029
PCE	0

	Discharge Rate (pounds/day)	Discharge Rate (pounds/hour)
Vinyl Chloride	0.00	0.00
Methylene Chloride	0.00	0.00
t-1,2 DCE	0.00	0.00
Chloroform	0.00	0.00
1,1,1 TCA	0.00	0.00
Carbon Tetrachloride	0.00	0.00
TCE	0.01	0.00
PCE	0.00	0.00
Total Chlorinated HC	0.01	0.00

Vapor Discharge Calculation Worksheet

Site: Former Allison Plant #10 - Groundwater Remedation System
Date: 11-17-06
Time: Southwest System with Northwest SVE Wells

Enter Air Flowrate in CFM	1000

Enter Concentrations in PPMV

Vinyl Chloride	0
Methylene Chloride	0
t-1,2 DCE	0.03
Chloroform	0
1,1,1 TCA	0
Carbon Tetrachloride	0
TCE	0.073
PCE	0

	Discharge Rate (pounds/day)	Discharge Rate (pounds/hour)
Vinyl Chloride	0.00	0.00
Methylene Chloride	0.00	0.00
t-1,2 DCE	0.01	0.00
Chloroform	0.00	0.00
1,1,1 TCA	0.00	0.00
Carbon Tetrachloride	0.00	0.00
TCE	0.04	0.00
PCE	0.00	0.00
Total Chlorinated HC	0.05	0.00

Vapor Discharge Calculation Worksheet

Site: Former Allison Plant #10 - Groundwater Remedation System
Date: 10-23-06
Time: Southwest System with Northwest SVE Wells

Enter Air Flowrate in CFM	1000

Enter Concentrations in PPMV

Vinyl Chloride	0
Methylene Chloride	0
t-1,2 DCE	0.02
Chloroform	0
1,1,1 TCA	0
Carbon Tetrachloride	0
TCE	0.064
PCE	0

	Discharge Rate (pounds/day)	Discharge Rate (pounds/hour)
Vinyl Chloride	0.00	0.00
Methylene Chloride	0.00	0.00
t-1,2 DCE	0.01	0.00
Chloroform	0.00	0.00
1,1,1 TCA	0.00	0.00
Carbon Tetrachloride	0.00	0.00
TCE	0.03	0.00
PCE	0.00	0.00
Total Chlorinated HC	0.04	0.00

VAPORTECH Services, Inc.

Analytical Laboratory & Geoprobe Sampling

10/26/06

Mr. Rob Fedorchak
Keramida Environmental, Inc.
401 N. College AVE
Indianapolis, IN 46202

RECEIVED
OCT 30 2006
KERAMIDA

Dear Rob:

Enclosed are the sample data report, chain of custody record and quality control data for the sample received on October 24, 2006 for your project; 2829E - Genuine Parts.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea

Enclosure:

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel.: 724-898-2622 • Fax: 724-898-2633

Vaportech Services, Inc.

KER169-60930

Keramida Environmental, Inc.
Project: 2829E-001 - Genuine Parts

CONCENTRATIONS IN PPMV

COMPOUND	S.WEST EFFLUENT	PQL
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	0.02	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	0.064	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

FILE NAME	V49A/B3.56A
DATE SAMPLED	10/23/06
DATE RECEIVED	10/24/06
DATE ANALYZED	10/25/06

PQL - denotes lower 'Practical Quantitation Limit'
ND - 'Not Detected' at or above the lower practical quantitation limit

26-Oct-06

Reviewed by: _____

Vaportech Services, Inc.

[redacted]169-60930

Keramida Environmental, Inc.
Project: 2829E-001 - Genuine Parts

QUALITY CONTROL

CONTINUING CALIBRATION CHECK

STANDARDS: 21V-R4 VC-1000
FILE NAME: V49A/B3.54A V49A3.55A
DATE ANALYZED: 10/25/06

COMPOUND	KNOWN (PPMV)	RESULT (PPMV)	PERCENT DIFFERENCE
1,1 DICHLOROETHYLENE	1.01	0.97	4.26
METHYLENE CHLORIDE	1.15	1.12	2.43
TRANS-1,2 DICHLOROETHYLENE	1.01	1.04	2.48
1,1 DICHLOROETHANE	0.99	1.10	11.01
CIS-1,2 DICHLOROETHYLENE	1.01	1.05	3.96
CHLOROFORM	0.820	0.851	3.78
1,1,1 TRICHLOROETHANE	0.730	0.751	2.88
CARBON TETRACHLORIDE	0.640	0.684	6.88
TRICHLOROETHYLENE	0.740	0.773	4.46
[redacted]TRACHLOROETHYLENE	0.590	0.626	6.10
[redacted]YL CHLORIDE	1000	1071	7.10

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
FILE NAME: V49A/B3.53A
DATE ANALYZED: 10/25/06

COMPOUND	BLANK (PPMV)	PRACTICAL QUANTITATION LIMIT (PPMV)
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	ND	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

ND - 'Not Detected' at or above the lower practical quantitation limit

[redacted]26-Oct-06

Reviewed by: _____

KER169 – 60930

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: KERAMIDA Environmental, Inc.
Address: 401 N College Ave.
City: Indianapolis State: IN Zip: 46202
Proj. Manager: R. Fedorchak
Proj. Location: GP-Fmr: Allison Plant 10
Proj. Number: 2804E-001
Phone #: 317 685 6623 Fax #: 317 685-6610
Sampler's signature: R. Fedorchak

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Collection Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis				(Other)	Remarks
10/23/06	1315	2	Vapor	SW Effluent	I				plus VC	

Results to: R. Fedorchak
Invoice to: T. LaRue

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
R. Fedorchak	KEI	10/23/06	1400	[illegible]	Vaportech	10/24/06	0800
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

VAPORTECH Services, Inc.

Analytical Laboratory & Geoprobe Sampling

11/30/06

Mr. Rob Fedorchak
Keramida Environmental, Inc.
401 N. College AVE.
Indianapolis, IN 46202

RECEIVED
DEC 07 2006
KERAMIDA

Dear Rob:

Enclosed are the sample data report, chain of custody record and quality control data for the sample received on November 20, 2006 for your project; 2829E - Genuine Parts.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea

Enclosure:

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel.: 724-898-2622 • Fax: 724-898-2633

Vaportech Services, Inc.

KER170-60993

Keramida Environmental, Inc.
Project: 2829E - Genuine Parts

CONCENTRATIONS IN PPMV

COMPOUND	SW SVE EXHAUST	PQL
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	0.03	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	0.073	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

FILE NAME	V50A/B.09A
DATE SAMPLED	11/17/06
DATE RECEIVED	11/20/06
DATE ANALYZED	11/20/06

PQL - denotes lower 'Practical Quantitation Limit'
ND - 'Not Detected' at or above the lower practical quantitation limit

30-Nov-06

Reviewed by:

Vaportech Services, Inc.

ER170-60993

Keramida Environmental, Inc.
Project: 2829E - Genuine Parts

QUALITY CONTROL

CONTINUING CALIBRATION CHECK

STANDARDS: 21V-R4 VC-1000
FILE NAME: V50A/B.03A V50A.05A
DATE ANALYZED: 11/20/06

COMPOUND	KNOWN (PPMV)	RESULT (PPMV)	PERCENT DIFFERENCE
1,1 DICHLOROETHYLENE	1.01	0.98	2.57
METHYLENE CHLORIDE	1.15	1.18	2.70
TRANS-1,2 DICHLOROETHYLENE	1.01	1.07	6.04
1,1 DICHLOROETHANE	0.99	1.13	14.14
CIS-1,2 DICHLOROETHYLENE	1.01	1.11	9.70
CHLOROFORM	0.820	0.892	8.78
1,1,1 TRICHLOROETHANE	0.730	0.784	7.40
CARBON TETRACHLORIDE	0.640	0.563	12.03
TRICHLOROETHYLENE	0.740	0.808	9.19
TETRACHLOROETHYLENE	0.590	0.650	10.17
VINYL CHLORIDE	1000	1071	7.10

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
FILE NAME: V50A/B.02A
DATE ANALYZED: 11/20/06

COMPOUND	BLANK (PPMV)	PRACTICAL QUANTITATION LIMIT (PPMV)
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	ND	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

ND - 'Not Detected' at or above the lower practical quantitation limit

30-Nov-06

Reviewed by: 

ER 169-60993
170

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: KERAMIDA ENV. INC.
Address: 401 N. COLLEGE AV.
City: INDPLS **State:** IN **Zip:** 46202
Proj. Manager: JAMES CONDRY
Proj. Location: GP SW SVE EXHAUST
Proj. Number: 2029E
Phone #: 317-685-6405 **Fax #:**

Sampler's signature:

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Collection Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis				(Other)	Remarks
11/17/06	950	2	AIR	SW SVE EXHAUST					VOC + VINYL CHLORIDE	

Results to :

Invoice to :

Relinquished by	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	KEI	11/17/06	1200	Julie K Baker	KEI	11/17/06	12:00
Julie K Baker	KEI	11/17/06	12:07		Vaportech	11/20/06	700
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

VAPORTECH
Services, Inc.

Analytical Laboratory & Geoprobe Sampling

12/27/06

Mr. Rob Fedorchak
Keramida Environmental, Inc.
401 N. College AVE
Indianapolis, IN 46202

Dear Rob:

Enclosed are the sample data report, chain of custody record and quality control data for the sample received on December 19, 2006 for your project; 2829E GP-Former Allison.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea

Enclosure:

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel.: 724-898-2622 • Fax: 724-898-2633

Vaportech Services, Inc.

KER171-61085

Keramida Environmental, Inc.
Project: 2829E - Genuine Parts

CONCENTRATIONS IN PPMV

COMPOUND	SW SVE EXHAUST	PQL
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	0.029	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

FILE NAME	V50A/B2.42A
DATE SAMPLED	12/18/06
DATE RECEIVED	12/19/06
DATE ANALYZED	12/20/06

PQL - denotes lower 'Practical Quantitation Limit'
ND - 'Not Detected' at or above the lower practical quantitation limit

27-Dec-06

Reviewed by:

Vaportech Services, Inc.

KER171-61085

Keramida Environmental, Inc.
Project: 2829E - Genuine Parts

QUALITY CONTROL

CONTINUING CALIBRATION CHECK

STANDARDS: 21V-R4
FILE NAME: V50A/B2.21A
DATE ANALYZED: 12/19/06

COMPOUND	KNOWN (PPMV)	RESULT (PPMV)	PERCENT DIFFERENCE
1,1 DICHLOROETHYLENE	1.01	0.96	5.35
METHYLENE CHLORIDE	1.15	1.15	0.35
TRANS-1,2 DICHLOROETHYLENE	1.01	1.04	2.77
1,1 DICHLOROETHANE	0.99	1.05	6.46
CIS-1,2 DICHLOROETHYLENE	1.01	1.11	9.70
CHLOROFORM	0.820	0.866	5.61
1,1,1 TRICHLOROETHANE	0.730	0.761	4.25
CARBON TETRACHLORIDE	0.640	0.560	12.50
TRICHLOROETHYLENE	0.740	0.773	4.46
TETRACHLOROETHYLENE	0.590	0.641	8.64

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
FILE NAME: V50A/B2.20A
DATE ANALYZED: 12/19/06

COMPOUND	BLANK (PPMV)	PRACTICAL QUANTITATION LIMIT (PPMV)
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.10
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	ND	0.005
TETRACHLOROETHYLENE	ND	0.005

ND - 'Not Detected' at or above the lower practical quantitation limit

27-Dec-06

Reviewed by: 

Vaportech Services, Inc.

R171-61065

Keramida Environmental
Project: 2829E - Genuine Parts

-- VAPOR SAMPLES --

SAMPLE NAME	CARBON DIOXIDE % by vol	OXYGEN % by vol	NITROGEN % by vol	METHANE % by vol	FILE NAME	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED
SW SVE EFFLUENT	0.04	19.89	76.63	ND	D3984.82A	12/18/2006	12/19/2006	12/28/2006
PQL	0.03	0.03	0.10	0.03				

PQL - denotes lower 'Practical Quantitation Limit'
ND - denotes 'Not Detected' at or above the lower Practical Quantitation Limit

29-Dec-2006

Reviewed by:

Vaportech Services, Inc.

R171-61085

Keramida Environmental
Project: 2829E - Genuine Parts

-- VAPOR SAMPLES --

QUALITY CONTROL

CONTINUING CALIBRATION CHECK (TCD)

STANDARD: "237"
FILE NAME: D39B4.71A
DATE ANALYZED: 12/28/06

COMPOUND	KNOWN (%)	RESULT (%)	PERCENT DIFFERENCE
Carbon Dioxide	15.00	15.48	3.21
Oxygen	7.00	7.15	2.16
Nitrogen	66.49	65.94	0.83
Methane	4.50	4.53	0.64

LABORATORY BLANK RESULTS (TCD)

BLANK: CARRIER IN LOOP
FILE NAME: D39B4.70A
DATE ANALYZED: 12/28/06

COMPOUND	BLANK (%)	PRACTICAL QUANTITATION LIMIT (%)
Carbon Dioxide	ND	0.03
Oxygen	ND	0.03
Nitrogen	ND	0.10
Methane	ND	0.03

- denotes 'Not Detected' at or above the lower Practical Quantitation Limit

29-Dec-2006

Reviewed by:

KER 171 – 61085

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: FT KERAMIDA ENVIRONMENTAL
Address: 401 N. COLLEGE AV.
City: INDPLS State: IN Zip: 46202
Proj. Manager: ROB FEDERCHAK
Proj. Location: BP – FORMER ALLISON
Proj. Number: 28298
Phone #: 317-685-6600 Fax #:

Sampler's signature:

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Collection Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis				(Other)	Remarks
12/8/06	1030	2	VAPOR	SW SVE EXHAUST	I	B			w/vinyl chloride	

Results to : ROB FEDERCHAK

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[illegible]	KEI	12/8/06	1200	[illegible]	VAPORTECH	12/9/06	1100
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

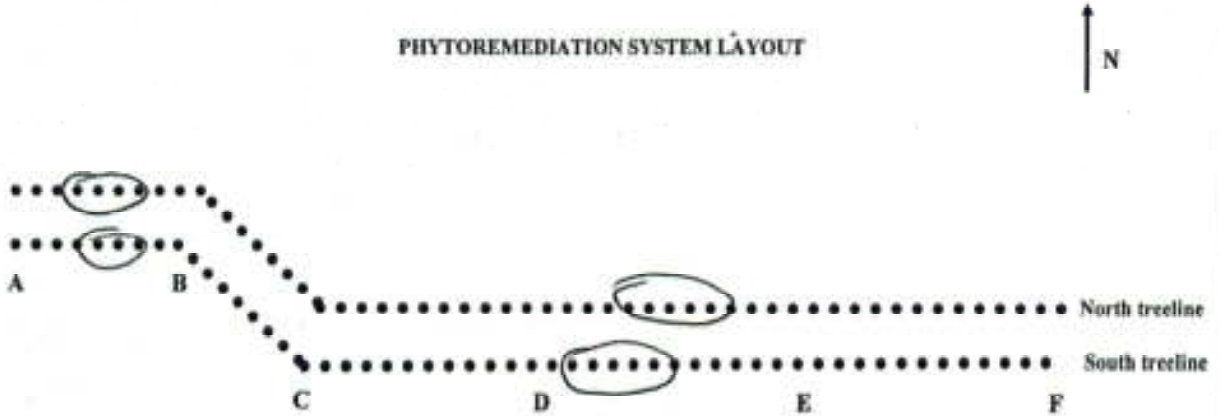
Phytoremediation System Inspection Checklist
Former General Motors Corporation
Allison Gas Turbine Division Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date of Inspection: 10/23/06
Inspection Frequency: Monthly
(monthly, quarterly, other)
Inspector: R. Fedorchak

	Parameters		
	Ground [1]	Trunk, Limbs & Branches [2]	Stability [3]
North Treeline Areas:			
A-B	–	RA	RA
B-C	–	RA	RA
C-D	–	–	–
D-E	–	RA	RA
E-F	–	–	–
South Treeline Areas:			
A-B	RA –	RA	RA
B-C	–	–	–
C-D	–	–	–
D-E	RA –	RA	RA
E-F	–	–	–

30-40 trees need replaced.

PHYTOREMEDIATION SYSTEM LAYOUT



Notes:
(1) Ground - check for soil coverage at tree base
(2) Trunk, limbs, & branches - check for broken branches, lacerations, pests, or other signs of damage or potential problems with the tree
(3) Stability - check for overall stability of the tree
Place a check mark in each box where no problems are observed.
Write "RA" where remedial action is needed to address a problem and describe the problem and remedial actions needed on the back of this form.

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-173	Well Location:

Monitoring Well Data		
Well Material	(PVC SS/Teflon)	
Inside Diameter, in.	(1 (2) 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	17.75	ft
Depth to product	—	ft
Depth to water (DTW)	12.96	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
(MS/MSD)
Other _____

Conventional sampling			⇐OR⇒	Micropurge sampling		
Height of water column (H = TD – DTW)		ft		Depth of pump placement (place mid-screen)	14.36	ft
Conversion value (CV)*	x			Bubbles purged from flow cell?	(Y) N	
1 Well volume = H x CV	=	gal		Is drawdown >0.3 feet	Y (N)	
3 Well volumes =	=	gal		Was passive sampling used?	Y (N)	
Purge method (B = bailer, P = pump)	B / P			Flowrate =		mL/min
				ID number from controller console	# 165	

Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.33	16.29	16.30				
Spec. Cond (µmhos)	+/- 3%	.881	.880	.875				
D.O. (mg/L)	+/- 10%**	2.33	2.34	2.32				
pH	+/- 0.1	7.35	7.35	7.35				
ORP (mV)	+/- 10 mV**	.52	.51	.51				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ± .15 gallons
Sample Date: 11/21/06 Sample Time: 11 : 50 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 11/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-103	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	19.60	ft
Depth to product	—	ft
Depth to water (DTW)	11.19	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling		
~~Height of water column (H = TD – DTW)~~		ft		Depth of pump placement (place mid-screen)	15.40	ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	Y / N	
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y / N	
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y / N	
~~Purge method (B = bailer, P = pump)~~	B / P			Flowrate =		mL/min
				ID number from controller console	# 1165	

Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.65	15.70	15.70				
Spec. Cond (µmhos)	+/- 3%	1.05	1.06	1.05				
D.O. (mg/L)	+/- 10%**	3.73	3.79	3.81				
pH	+/- 0.1	6.96	6.97	6.97				
ORP (mV)	+/- 10 mV**	-100	-101	-101				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 2.15 gallons
Sample Date: 11/21/06 Sample Time: 11 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 11/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: TW-1	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height	____	ft
Total depth of well (TD)	14.85	ft
Depth to product	____	ft
Depth to water (DTW)	11.35	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab) Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling		
~~Height of water column (H = TD – DTW)~~		ft		Depth of pump placement (place mid-screen)	13.10	ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	(Y) / N	
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y (N)	
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y (N)	
~~Purge method (B = bailer, P = pump)~~	B / P			Flowrate =		mL/min
				ID number from controller console	# 165	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.70	13.73	13.71				
Spec. Cond (µmhos)	+/- 3%	4.21	4.20	4.20				
D.O. (mg/L)	+/- 10%**	6.03	5.99	5.96				
pH	+/- 0.1	5.72	5.73	5.71				
ORP (mV)	+/- 10 mV**	-36	-36	-36				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈ 10 gallons
Sample Date: 11/21/16 Sample Time: 11 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 11/21/16

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: IW-2	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height	____	ft
Total depth of well (TD)	16.91	ft
Depth to product	—	ft
Depth to water (DTW)	12.56	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling		
~~Height of water column (H = TD – DTW)~~		ft		Depth of pump placement (place mid-screen)	14.63	ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	(Y) / N	
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y (N)	
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y (N)	
~~Purge method (B = bailer, P = pump)~~	B / P			Flowrate =		mL/min
				ID number from controller console	# 165	

Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.51	15.53	15.48				
Spec. Cond (µmhos)	+/- 3%	.999	.993	.991				
D.O. (mg/L)	+/- 10%**	.14	.14	.18				
pH	+/- 0.1	7.23	7.22	7.21				
ORP (mV)	+/- 10 mV**	-76	-77	-78				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 2.15 gallons
Sample Date: 11/21/06 Sample Time: 10 : 15 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/(Very Turbid))
Well condition: Good

Signature: _____ Date: 11/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-15Z	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4/6)	
Stick up or stick down height	____	ft
Total depth of well (TD)	18.21	ft
Depth to product	—	ft
Depth to water (DTW)	11.87	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling		
~~Height of water column (H = TD – DTW)~~		~~ft~~		Depth of pump placement (place mid-screen)	16.20	ft
~~Conversion value (CV)*~~	~~x~~			Bubbles purged from flow cell?	(Y) N	
~~1 Well volume = H x CV~~	~~=~~	~~gal~~		Is drawdown >0.3 feet	Y (N)	
~~3 Well volumes =~~	~~=~~	~~gal~~		Was passive sampling used?	Y (N)	
~~Purge method (B = bailer, P = pump)~~	~~B / P~~			Flowrate =		mL/min
				ID number from controller console	# 165	

Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.68	15.70	15.70				
Spec. Cond (µmhos)	+/- 3%	.789	.791	.790				
D.O. (mg/L)	+/- 10%**	3.45	3.43	3.39				
pH	+/- 0.1	7.40	7.42	7.41				
ORP (mV)	+/- 10 mV**	240	249	247				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: *.15 gallons
Sample Date: 11/21/06 Sample Time: 9 : 40 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 11/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-151	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 (2) 4 6)	
Stick up or stick down height	—	ft
Total depth of well (TD)	18.23	ft
Depth to product	—	ft
Depth to water (DTW)	13.77	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
(Duplicate (Duplicate ID: DUP-01))
MS/MSD
Other_____

~~**Conventional sampling**~~

~~Height of water column (H = TD - DTW)~~		~~ft~~
~~Conversion value (CV)*~~	~~x~~	
~~1 Well volume = H x CV~~	~~=~~	~~gal~~
~~3 Well volumes =~~	~~=~~	~~gal~~
~~Purge method (B = bailer, P = pump)~~	~~B / P~~	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.00	ft
Bubbles purged from flow cell?	(Y) N	
Is drawdown >0.3 feet	Y (N)	
Was passive sampling used?	Y (N)	
Flowrate =		mL/min
ID number from controller console	#165	

Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.73	13.77	14.09				
Spec. Cond (µmhos)	+/- 3%	.816	.817	.816				
D.O. (mg/L)	+/- 10%**	4.26	4.27	4.26				
pH	+/- 0.1	7.25	7.24	7.27				
ORP (mV)	+/- 10 mV**	266	266	266				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 2.15 gallons
Sample Date: 11/21/06 Sample Time: 9 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 11/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-154	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1) 2 4 6	
Stick up or stick down height		ft
Total depth of well (TD)	20.56	ft
Depth to product	—	ft
Depth to water (DTW)	13.61	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~**Conventional sampling**~~

Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	17.06 ft
Bubbles purged from flow cell?	(Y) / N
Is drawdown >0.3 feet	Y (N)
Was passive sampling used?	Y (N)
Flowrate =	mL/min
ID number from controller console	#165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.47	14.41	14.44				
Spec. Cond (µmhos)	+/- 3%	1.21	1.21	1.20				
D.O. (mg/L)	+/- 10%**	2.96	2.95	2.95				
pH	+/- 0.1	7.28	7.28	7.27				
ORP (mV)	+/- 10 mV**	110	111	110				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈1.5 gallons
Sample Date: 12/20/06 Sample Time: 10 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-147AR	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1) 2 4 6	
Stick up or stick down height		ft
Total depth of well (TD)	29.59	ft
Depth to product	—	ft
Depth to water (DTW)	11.19	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling		
Height of water column (H = TD – DTW)		ft		Depth of pump placement (place mid-screen)	24.59	ft
Conversion value (CV)*	x			Bubbles purged from flow cell?	(Y)/ N	
1 Well volume = H x CV	=	gal		Is drawdown >0.3 feet	Y /(N)	
3 Well volumes =	=	gal		Was passive sampling used?	Y /(N)	
Purge method (B = bailer, P = pump)	B / P			Flowrate =		mL/min
				ID number from controller console	# 165	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.45	14.44	14.41	14.43			
Spec. Cond (µmhos)	+/- 3%	.982	.983	.983	.982			
D.O. (mg/L)	+/- 10%**	.84	.94	1.33	1.34			
pH	+/- 0.1	6.91	6.91	6.90	6.89			
ORP (mV)	+/- 10 mV**	-97.5	-97.3	-97.6	-97.7			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈ 1.5 gallons
Sample Date: 12/20/16 Sample Time: 10 : 20 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/(Very Turbid))
Well condition: GOOD

Signature: _____ Date: 12/20/16

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-132R	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	19.26	ft
Depth to product	—	ft
Depth to water (DTW)	11.24	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

~~**Conventional sampling**~~

Height of water column (H = TD - DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	14.26	ft
Bubbles purged from flow cell?	(Y) / N	
Is drawdown >0.3 feet	Y (N)	
Was passive sampling used?	Y (N)	
Flowrate =		mL/min
ID number from controller console	# 165	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.99	14.03	13.97				
Spec. Cond (µmhos)	+/- 3%	.681	.681	.680				
D.O. (mg/L)	+/- 10%**	2.65	2.63	2.61				
pH	+/- 0.1	6.96	6.96	6.97				
ORP (mV)	+/- 10 mV**	39.5	39.6	39.9				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈ 2.0 gallons
Sample Date: 12/20/06 Sample Time: 10 : 40 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-148R	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4/6)	
Stick up or stick down height		ft
Total depth of well (TD)	25.49	ft
Depth to product	—	ft
Depth to water (DTW)	11.17	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~**Conventional sampling**~~

~~Height of water column (H = TD – DTW)~~		~~ft~~
~~Conversion value (CV)*~~	~~x~~	
~~1 Well volume = H x CV~~	~~=~~	~~gal~~
~~3 Well volumes =~~	~~=~~	~~gal~~
~~Purge method (B = bailer, P = pump)~~	~~B / P~~	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	20.49	ft
Bubbles purged from flow cell?	(Y) / N	
Is drawdown >0.3 feet	Y / (N)	
Was passive sampling used?	Y / (N)	
Flowrate =		mL/min
ID number from controller console	# 165	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.48	13.49	13.51				
Spec. Cond (µmhos)	+/- 3%	.917	.916	.915				
D.O. (mg/L)	+/- 10%**	4.09	4.16	4.17				
pH	+/- 0.1	6.92	6.92	6.91				
ORP (mV)	+/- 10 mV**	37.7	37.8	38.1				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈ 1.75 gallons
Sample Date: 12/20/06 Sample Time: 11 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-163	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	20.80	ft
Depth to product	—	ft
Depth to water (DTW)	12.07	ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: DUP-01)
MS/MSD
Other _____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Conventional sampling			Micropurge sampling	
Height of water column (H = TD - DTW)		ft	Depth of pump placement (place mid-screen)	15.80 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y)/N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.93	13.92	13.90				
Spec. Cond (µmhos)	+/- 3%	1.282	1.281	1.280				
D.O. (mg/L)	+/- 10%**	4.84	4.81	4.78				
pH	+/- 0.1	6.90	6.91	6.90				
ORP (mV)	+/- 10 mV**	96.7	96.8	96.8				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 42.0 gallons
Sample Date: 12/20/06 Sample Time: 11 : 15 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-302	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4/6)	
Stick up or stick down height		ft
Total depth of well (TD)	55.11	ft
Depth to product		ft
Depth to water (DTW)	12.98	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab)/Composite
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

~~**Conventional sampling**~~ ⇐OR⇒ **Micropurge sampling**

~~Height of water column (H = TD – DTW)~~		~~ft~~	Depth of pump placement (place mid-screen)	50.11 ft
~~Conversion value (CV)*~~	~~x~~		Bubbles purged from flow cell?	(Y)/N
~~1 Well volume = H x CV~~	~~=~~	~~gal~~	Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	~~=~~	~~gal~~	Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~	~~B / P~~		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.19	13.20	13.21				
Spec. Cond (µmhos)	+/- 3%	.428	.427	.428				
D.O. (mg/L)	+/- 10%**	.76	.70	.70				
pH	+/- 0.1	7.53	7.53	7.53				
ORP (mV)	+/- 10 mV**	-134	-134	-133				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ~2.0 gallons
Sample Date: 12/20/06 Sample Time: 11 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-133R	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height	—	ft
Total depth of well (TD)	16.17	ft
Depth to product	—	ft
Depth to water (DTW)	9.40	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

~~**Conventional sampling**~~ ⇐OR⇒ **Micropurge sampling**

~~Height of water column (H = TD - DTW)~~	~~ft~~	Depth of pump placement (place mid-screen)	13 00 ft
~~Conversion value (CV)*~~	~~x~~	Bubbles purged from flow cell?	(Y) / N
~~1 Well volume = H x CV~~	~~= gal~~	Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	~~= gal~~	Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~	~~B / P~~	Flowrate =	mL/min
		ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.16	15.18	15.19				
Spec. Cond (µmhos)	+/- 3%	.716	.717	.717				
D.O. (mg/L)	+/- 10%**	5.49	5.50	5.60				
pH	+/- 0.1	7.04	7.04	7.04				
ORP (mV)	+/- 10 mV**	45.9	46.2	46.4				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈1.5 gallons
Sample Date: 12/20/06 Sample Time: 11 : 50 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-145	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	25.92	ft
Depth to product	—	ft
Depth to water (DTW)	8.91	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling	
~~Height of water column (H = TD - DTW)~~		ft		Depth of pump placement (place mid-screen)	20.92 ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	(Y)/N
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~	B / P			Flowrate =	mL/min
				ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.89	13.90	13.90				
Spec. Cond (µmhos)	+/- 3%	.960	.961	.963				
$D.O._1$ (mg/L)	+/- 10%**	3.33	3.38	3.42				
pH	+/- 0.1	6.92	6.92	6.92				
ORP (mV)	+/- 10 mV**	-37.4	-37.1	-37.0				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈20 gallons
Sample Date: 12/20/06 Sample Time: 12 : 45 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-152	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	16.95	ft
Depth to product	—	ft
Depth to water (DTW)	13.84	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab) Composite
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

~~**Conventional sampling**~~ ⇐OR⇒ **Micropurge sampling**

~~Height of water column (H = TD - DTW)~~		ft	Depth of pump placement (place mid-screen)	14.50 ft
~~Conversion value (CV)*~~	~~x~~		Bubbles purged from flow cell?	(Y) N
~~1 Well volume = H x CV~~	~~=~~	~~gal~~	Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	~~=~~	~~gal~~	Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~	~~B / P~~		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.29	15.30	15.33				
Spec. Cond (µmhos)	+/- 3%	.328	.328	327				
D.O. (mg/L)	+/- 10%**	3.72	3.68	3.65				
pH	+/- 0.1	7.36	7.37	7.34				
ORP (mV)	+/- 10 mV**	68.9	69.0	69.1				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ~1.0 gallons
Sample Date: 12/20/06 Sample Time: 13:00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-146	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	23.41	ft
Depth to product	—	ft
Depth to water (DTW)	9.56	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab/Composite)
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Height of water column (H = TD - DTW)		ft	Depth of pump placement (place mid-screen)	18.41 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.38	14.38	14.39				
Spec. Cond (µmhos)	+/- 3%	0.70	0.70	0.70				
D.O. (mg/L)	+/- 10%**	4.01	4.05	4.08				
pH	+/- 0.1	6.92	6.92	6.91				
ORP (mV)	+/- 10 mV**	20	21	21				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈20 gallons
Sample Date: 12/20/06 Sample Time: 13 : 20 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

10-1R

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-10R	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.59	ft
Depth to product	—	ft
Depth to water (DTW)	14.43	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
(Duplicate) (Duplicate ID: DUP-02)
(MS/MSD)
Other _____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Conventional sampling			Micropurge sampling	
Height of water column (H = TD - DTW)		ft	Depth of pump placement (place mid-screen)	14.50 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y / (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y / (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.31	14.33	14.34				
Spec. Cond (µmhos)	+/- 3%	.571	.572	.572				
D.O. (mg/L)	+/- 10%**	5.33	5.32	5.32				
pH	+/- 0.1	7.20	7.21	7.21				
ORP (mV)	+/- 10 mV**	75.1	75.2	75.2				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈2.5 gallons
Sample Date: 12/20/06 Sample Time: 13:45 (military time)
Was metals sample filtered prior to preservation? YES / (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 12/20/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-135	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4/6)	
Stick up or stick down height	____	ft
Total depth of well (TD)	18.89	ft
Depth to product	____	ft
Depth to water (DTW)	13.04	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab)/Composite
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other_____

~~**Conventional sampling**~~

Height of water column (H = TD - DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	15.50	ft
Bubbles purged from flow cell?	(Y) N	
Is drawdown >0.3 feet	Y / (N)	
Was passive sampling used?	Y / (N)	
Flowrate =		mL/min
ID number from controller console	# 165	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.97	14.98	15.01	____	____	____	____
Spec. Cond (µmhos)	+/- 3%	.473	.472	.472	____	____	____	____
D.O. (mg/L)	+/- 10%**	5.57	5.58	5.58	____	____	____	____
pH	+/- 0.1	7.16	7.15	7.15	____	____	____	____
ORP (mV)	+/- 10 mV**	104.6	104.5	104.6	____	____	____	____
Turbidity (NTU)	+/- 10%**	____	____	____	____	____	____	____
H_2S (mg/L)		____	____	____	____	____	____	____
Fe^{2+} (mg/L)		____	____	____	____	____	____	____

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈1.5 gallons
Sample Date: 12/21/06 Sample Time: 09 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-150	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 (2) 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.49	ft
Depth to product	—	ft
Depth to water (DTW)	12.87	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Height of water column (H = TD - DTW)		ft	Depth of pump placement (place mid-screen)	15.50 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.53	15.54	15.59				
Spec. Cond (µmhos)	+/- 3%	.675	.675	.676				
D.O. (mg/L)	+/- 10%**	1.21	1.13	1.14				
pH	+/- 0.1	7.02	7.01	7.01				
ORP (mV)	+/- 10 mV**	119	118.8	118.7				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 21.5 gallons
Sample Date: 12/21/06 Sample Time: 8 :50 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: IW-2	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height	____	ft
Total depth of well (TD)	16.93	ft
Depth to product	____	ft
Depth to water (DTW)	12.62	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab) Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling	
~~Height of water column (H = TD - DTW)~~		ft		Depth of pump placement (place mid-screen)	14.75 ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	(Y) N
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~	B / P			Flowrate =	mL/min
				ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.37	15.38	15.35	____	____	____	____
Spec. Cond (µmhos)	+/- 3%	0.594	0.595	0.595	____	____	____	____
D.O. (mg/L)	+/- 10%**	0.34	0.34	0.33	____	____	____	____
pH	+/- 0.1	7.08	7.08	7.08	____	____	____	____
ORP (mV)	+/- 10 mV**	-97	-96	-96	____	____	____	____
Turbidity (NTU)	+/- 10%**	____	____	____	____	____	____	____
H_2S (mg/L)		____	____	____	____	____	____	____
Fe^{2+} (mg/L)		____	____	____	____	____	____	____

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ~1.5 gallons
Sample Date: 12/21/06 Sample Time: 9 : 10 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: FW-1	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	14.85	ft
Depth to product	—	ft
Depth to water (DTW)	11.70	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab) Composite
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling	
~~Height of water column (H = TD - DTW)~~		ft		Depth of pump placement (place mid-screen)	13.2 ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	(Y)/N
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y/(N)
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y/(N)
~~Purge method (B = bailer, P = pump)~~		B / P		Flowrate =	mL/min
				ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.70	14.69	14.69				
Spec. Cond (µmhos)	+/- 3%	1.512	1.510	1.507				
D.O. (mg/L)	+/- 10%**	3.25	3.25	3.25				
pH	+/- 0.1	5.88	5.87	5.88				
ORP (mV)	+/- 10 mV**	-49.6	-49.4	-49.2				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ~1.5 gallons
Sample Date: 12/21/06 Sample Time: 9 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-113	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height	____	ft
Total depth of well (TD)	19.59	ft
Depth to product	—	ft
Depth to water (DTW)	11.54	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling		
~~Height of water column (H = TD - DTW)~~		ft		Depth of pump placement (place mid-screen)	15.50	ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	(Y) N	
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y (N)	
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y (N)	
~~Purge method (B = bailer, P = pump)~~	B / P			Flowrate =		mL/min
				ID number from controller console	# 165	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.38	14.37	14.37				
Spec. Cond (µmhos)	+/- 3%	.161	.160	.159				
D.O. (mg/L)	+/- 10%**	3.46	3.47	3.45				
pH	+/- 0.1	7.00	7.00	7.00				
ORP (mV)	+/- 10 mV**	-59.9	-60	-60				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ~1.25 gallons
Sample Date: 12/21/06 Sample Time: 9 : 50 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-173	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	17.78	ft
Depth to product		ft
Depth to water (DTW)	13.03	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab/Composite)
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Conventional sampling			Micropurge sampling	
Height of water column (H = TD - DTW)		ft	Depth of pump placement (place mid-screen)	15.35 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.12	15.13	15.14				
Spec. Cond (µmhos)	+/- 3%	.471	.471	.471				
D.O. (mg/L)	+/- 10%**	1.52	1.52	1.55				
pH	+/- 0.1	7.16	7.16	7.12				
ORP (mV)	+/- 10 mV**	1.4	1.5	20				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈1.5 gallons
Sample Date: 12/21/06 Sample Time: 10 : 10 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-156	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.81	ft
Depth to product	—	ft
Depth to water (DTW)	12.09	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling	
~~Height of water column (H = TD - DTW)~~		ft		Depth of pump placement (place mid-screen)	15.48 ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	(Y) / N
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~	B / P			Flowrate =	mL/min
				ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.72	15.72	15.71				
Spec. Cond (µmhos)	+/- 3%	.543	.541	.534				
D.O. (mg/L)	+/- 10%**	1.40	1.41	1.41				
pH	+/- 0.1	7.14	7.15	7.16				
ORP (mV)	+/- 10 mV**	31.0	31.1	31.1				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈1.75 gallons
Sample Date: 12/21/06 Sample Time: 10 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-151	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.92	ft
Depth to product	—	ft
Depth to water (DTW)	13.95	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab/Composite)
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Height of water column (H = TD - DTW)		ft	Depth of pump placement (place mid-screen)	16.45 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.75	13.76	13.76				
Spec. Cond (µmhos)	+/- 3%	.457	.456	.457				
D.O. (mg/L)	+/- 10%**	3.72	3.72	3.70				
pH	+/- 0.1	6.96	6.92	6.97				
ORP (mV)	+/- 10 mV**	35.9	36.2	36.3				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 91.5 gallons
Sample Date: 12/21/06 Sample Time: 10:50 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-157	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	19.07	ft
Depth to product	—	ft
Depth to water (DTW)	11.81	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab/Composite)
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other_____

~~**Conventional sampling**~~

~~Height of water column (H = TD – DTW)~~		~~ft~~
~~Conversion value (CV)*~~	~~x~~	
~~1 Well volume = H x CV~~	~~=~~	~~gal~~
~~3 Well volumes =~~	~~=~~	~~gal~~
~~Purge method (B = bailer, P = pump)~~	~~B / P~~	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.51 ft
Bubbles purged from flow cell?	(Y) / N
Is drawdown >0.3 feet	Y / (N)
Was passive sampling used?	Y / (N)
Flowrate =	mL/min
ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	12.56	12.57	12.57				
Spec. Cond (µmhos)	+/- 3%	.632	.633	.634				
D.O. (mg/L)	+/- 10%**	1.27	1.23	1.19				
pH	+/- 0.1	7.00	7.01	7.01				
ORP (mV)	+/- 10 mV**	68.4	68.5	68.7				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 21.5 gallons
Sample Date: 12/21/06 Sample Time: 11 : 10 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-164	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	24.91	ft
Depth to product	—	ft
Depth to water (DTW)	18.80	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab/Composite)
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Height of water column (H = TD – DTW)		ft	Depth of pump placement (place mid-screen)	21.90 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y / (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.56	14.57	14.64				
Spec. Cond (µmhos)	+/- 3%	417	.617	.617				
D.O. (mg/L)	+/- 10%**	1.56	1.55	1.56				
pH	+/- 0.1	7.08	7.01	7.02				
ORP (mV)	+/- 10 mV**	80.2	81.2	81.1				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: ≈1.75 gallons

Sample Date: 12/21/06 Sample Time: 11 : 30 (military time)

Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES (NO) explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample ID: MW1695	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	24.47	ft
Depth to product	—	ft
Depth to water (DTW)	19.32	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- (Grab/Composite)
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Height of water column (H = TD - DTW)		ft	Depth of pump placement (place mid-screen)	21.80 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	12.88	12.99	12.99				
Spec. Cond (µmhos)	+/- 3%	.830	.831	.831				
D.O. (mg/L)	+/- 10%**	1.11	1.02	1.02				
pH	+/- 0.1	7.04	7.03	7.03				
ORP (mV)	+/- 10 mV**	-80.5	-79.5	-79.2				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ~1.5 gallons
Sample Date: 12/21/06 Sample Time: 12 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-119D	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	36.79	ft
Depth to product		ft
Depth to water (DTW)	19.30	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling			⇐OR⇒	Micropurge sampling	
Height of water column (H = TD - DTW)		ft		Depth of pump placement (place mid-screen)	31.79 ft
Conversion value (CV)*	x			Bubbles purged from flow cell?	(Y)/N
1 Well volume = H x CV	=	gal		Is drawdown >0.3 feet	Y/(N)
3 Well volumes =	=	gal		Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P			Flowrate =	mL/min
				ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.58	13.59	13.59				
Spec. Cond (µmhos)	+/- 3%	.640	.641	.643				
D.O. (mg/L)	+/- 10%**	1.43	1.47	1.47				
pH	+/- 0.1	7.02	7.03	7.02				
ORP (mV)	+/- 10 mV**	-66.1	-65.7	-65.2				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈2.0 gallons
Sample Date: 12/21/06 Sample Time: 12 : 20 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample ID: MW615	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	24.70	ft
Depth to product	~~—~~	ft
Depth to water (DTW)	17.90	ft

Sample Types (circle all applicable)
- (Monitoring Well)
- ~~Grab/Composite~~
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other_____

~~**Conventional sampling**~~ ⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	21.70	ft
Bubbles purged from flow cell?	(Y) N	
Is drawdown >0.3 feet	Y (N)	
Was passive sampling used?	Y (N)	
Flowrate =		mL/min
ID number from controller console	#165	

~~Height of water column (H = TD – DTW) ft~~
~~Conversion value (CV)* x~~
~~1 Well volume = H x CV = gal~~
~~3 Well volumes = = gal~~
~~Purge method (B = bailer, P = pump) B / P~~

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.85	14.91	14.88				
Spec. Cond (µmhos)	+/- 3%	1.537	1.536	1.536				
D.O. (mg/L)	+/- 10%**	1.00	1.01	.99				
pH	+/- 0.1	6.63	6.33	6.63				
ORP (mV)	+/- 10 mV**	59.9	60.0	60.4				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈1.5 gallons
Sample Date: 12/21/06 Sample Time: 12 : 40 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-16D	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	32.96	ft
Depth to product	—	ft
Depth to water (DTW)	17.97	ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: DUP-03)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Conventional sampling			Micropurge sampling	
Height of water column (H = TD - DTW)		ft	Depth of pump placement (place mid-screen)	27.96 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	Y (N)
3 Well volumes =	=	gal	Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.61	15.61	15.59				
Spec. Cond (µmhos)	+/- 3%	.555	.556	.549				
D.O. (mg/L)	+/- 10%**	.15	.15	.15				
pH	+/- 0.1	7.40	7.40	7.37				
ORP (mV)	+/- 10 mV**	-104.1	-104.0	-103.8				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ~2.0 gallons
Sample Date: 12/21/06 Sample Time: 13:00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD
Signature: [signature] Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-105S	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	19.86	ft
Depth to product	—	ft
Depth to water (DTW)	13.94	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- Grab/Composite
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other_____

~~**Conventional sampling**~~ ⇐OR⇒ **Micropurge sampling**

~~Height of water column (H = TD - DTW)~~		ft	
~~Conversion value (CV)*~~	~~x~~		
~~1 Well volume = H x CV~~	~~=~~	~~gal~~	
~~3 Well volumes =~~	~~=~~	~~gal~~	
~~Purge method (B = bailer, P = pump)~~	~~B / P~~		
Depth of pump placement (place mid-screen)			16.80 ft
Bubbles purged from flow cell?			(Y) N
Is drawdown >0.3 feet			Y (N)
Was passive sampling used?			Y (N)
Flowrate =			mL/min
ID number from controller console			# 105

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.85	16.84	16.84				
Spec. Cond (µmhos)	+/- 3%	.418	.418	.417				
D.O. (mg/L)	+/- 10%**	.24	.27	.23				
pH	+/- 0.1	7.39	7.93	7.31				
ORP (mV)	+/- 10 mV**	-94	-94.1	-94.2				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 21.5 gallons
Sample Date: 12/21/06 Sample Time: 13 : 20 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-165D	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height	—	ft
Total depth of well (TD)	46.69	ft
Depth to product	—	ft
Depth to water (DTW)	13.72	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab) / Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling	
~~Height of water column (H = TD - DTW)~~		ft		Depth of pump placement (place mid-screen)	41.69 ft
~~Conversion value (CV)*~~	x			Bubbles purged from flow cell?	(Y) / N
~~1 Well volume = H x CV~~	=	gal		Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	=	gal		Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~		B / P		Flowrate =	mL/min
				ID number from controller console	#165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.33	16.34	16.34				
Spec. Cond (µmhos)	+/- 3%	.635	.635	.635				
D.O. (mg/L)	+/- 10%**	1.80	1.94	1.98				
pH	+/- 0.1	7.08	7.07	7.07				
ORP (mV)	+/- 10 mV**	-80.8	-80.7	-80.6				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ≈20 gallons
Sample Date: 12/21/06 Sample Time: 13 : 40 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: [signature] Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-164D	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height	____	ft
Total depth of well (TD)	49.75	ft
Depth to product	____	ft
Depth to water (DTW)	14.34	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

~~**Conventional sampling**~~ ⇐OR⇒ **Micropurge sampling**

~~Height of water column (H = TD - DTW)~~		~~ft~~	Depth of pump placement (place mid-screen)	44.75 ft
~~Conversion value (CV)*~~	~~x~~		Bubbles purged from flow cell?	(Y) N
~~1 Well volume = H x CV~~	~~=~~	~~gal~~	Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	~~=~~	~~gal~~	Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~	~~B / P~~		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.33	15.33	15.31				
Spec. Cond (µmhos)	+/- 3%	.644	.644	.643				
D.O. (mg/L)	+/- 10%**	.30	.30	.30				
pH	+/- 0.1	7.13	7.07	7.06				
ORP (mV)	+/- 10 mV**	-96.5	-96.7	-96.8				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 4.25 gallons
Sample Date: 12/21/06 Sample Time: 14 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: (Good)

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant	KEI Project #: 2829E-001
Sample I.D.: MW-1665	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height	—	ft
Total depth of well (TD)	19.34	ft
Depth to product	—	ft
Depth to water (DTW)	14.54	ft

Sample Types (circle all applicable)
- (Monitoring Well)
- Grab/Composite
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other _____

~~Conventional sampling~~			⇐OR⇒	Micropurge sampling	
~~Height of water column (H = TD - DTW)~~		ft		Depth of pump placement (place mid-screen)	16.25 ft
~~Conversion value (CV)*~~	~~x~~			Bubbles purged from flow cell?	(Y) / N
~~1 Well volume = H x CV~~	~~=~~	~~gal~~		Is drawdown >0.3 feet	Y (N)
~~3 Well volumes =~~	~~=~~	~~gal~~		Was passive sampling used?	Y (N)
~~Purge method (B = bailer, P = pump)~~	~~B / P~~			Flowrate =	mL/min
				ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.31	16.30	16.30				
Spec. Cond (µmhos)	+/- 3%	.611	.610	.609				
D.O. (mg/L)	+/- 10%**	.63	.64	.64				
pH	+/- 0.1	7.03	7.03	7.03				
ORP (mV)	+/- 10 mV**	249.5	250	250				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 21.5 gallons
Sample Date: 12/21/06 Sample Time: 14 : 20 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES (NO) explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 12/21/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW-110	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4/6)	
Stick up or stick down height	—	ft
Total depth of well (TD)	12.0	ft
Depth to product	—	ft
Depth to water (DTW)	1.91	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		⇐OR⇒	Micropurge sampling	
Height of water column (H = TD – DTW)	10.09 ft		Depth of pump placement (place mid-screen)	ft
Conversion value (CV)*	x 1.6		Bubbles purged from flow cell?	Y / N
1 Well volume = H x CV	= 1.61 gal		Is drawdown > 0.3 feet	Y / N
3 Well volumes =	= 4.84 gal		Was passive sampling used?	Y / N
Purge method (B = bailer, P = pump)	(B) / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%							
Spec. Cond (µmhos)	+/- 3%							
D.O. (mg/L)	+/- 10%**							
pH	+/- 0.1							
ORP (mV)	+/- 10 mV**							
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 5 gallons
Sample Date: 1/19/07 Sample Time: 10 : 10 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: _____ Date: 1/19/07

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E.001.003
Sample I.D.: MW-16	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(2 4 6)	
Stick up or stick down height	—	ft
Total depth of well (TD)	12.96	ft
Depth to product	—	ft
Depth to water (DTW)	3.58	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab/Composite)
Split Sample
(Duplicate) (Duplicate ID: DUP-01)
MS/MSD
Other_____

Conventional sampling		⇐OR⇒	Micropurge sampling	
Height of water column (H = TD – DTW)	9.38 ft		Depth of pump placement (place mid-screen)	ft
Conversion value (CV)*	x .16		Bubbles purged from flow cell?	Y / N
1 Well volume = H x CV	= 1.50 gal		Is drawdown >0.3 feet	Y / N
3 Well volumes =	= 4.50 gal		Was passive sampling used?	Y / N
Purge method (B = bailer, P = pump)	(B) P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%							
Spec. Cond (µmhos)	+/- 3%							
D.O. (mg/L)	+/- 10%**							
pH	+/- 0.1							
ORP (mV)	+/- 10 mV**							
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 4.50 gallons
Sample Date: 1/19/07 Sample Time: 10 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: GOOD

Signature: _____ Date: 1/19/07

KERAMIDA
ENVIRONMENT · HEALTH · SAFETY
AIR • LAND • WATER • WASTE
Remediation System Evaluation Report
October - December 2006
Laboratory Analytical
IDEM VRP #09108A
KERAMIDA Project No. 2829E